

FILE NOTATIONS

Entered in NID File ✓
 Location Map Planned ✓
 and Indexed ✓

Checked by Chief
 Approval Letter
 Disapproval Letter

PWB
 2-23-74

COMPLETION DATA:

Date Well Completed

Location Inspected

W..... WW..... TA.....

GW..... OS..... PA.....

Bond released

State or Fee Land

LOGS FILED

Driller's Log..... ✓

Geologic Logs (Glo.) ✓

..... Dual I Lat..... GR-N..... Micro.....

ANC Sonic CR..... Lat..... MI-L..... Sonic.....

CBLog..... CCLog..... Others.....

MB

(Other instructions on reverse side)

THE STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☒GAS WELL ☐

OTHER

SINGLE ZONE ☒MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Flying Diamond Corporation, Suite 2480, Colorado

3. ADDRESS OF OPERATOR

1600 Broadway, Denver, Colo. 80202

Bank Bldg.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

NE 1/4 Sec. 13, T1S, R5W

At proposed prod. zone

982' FNL 1564' FEL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

1/2 mi. south of Mountain Home

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. line, if any)

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

16. NO. OF ACRES IN LEASE

640

19. PROPOSED DEPTH

17,000

17. NO. OF ACRES ASSIGNED

TO THIS WELL

640

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

7076' ungraded ground

22. APPROX. DATE WORK WILL START*

Feb. 22, 1973

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8	68#	360'	Circl.
12-1/4"	9-5/8	40#	7500'	To surface
8-3/4"	7-5/8	29.7-33.7	14000	700 sxs.
6-1/2"	5-1/2" liner	23#	17000	300 sxs.

#1 - This well is projected to 17,000' to test all oil & gas shows encountered in Wasatch Formation.

#2 - BOP program will consist of the following:

	Size	API Series	Style
0 - 7500'	12"	900	Double Hydraulic
0 - 7500'	12"	900	Hydril
7500 - TD	10"	1500	Cameron QRC
7500 - TD	10"	1500	Hydril

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

L L Flower

Drilling & Prod. Mgr.

TITLE

DATE

2-21-73

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

THE STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☒GAS WELL ☐OTHER ☐SINGLE ZONE ☒MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Flying Diamond Corporation, Suite 2480, Colorado

3. ADDRESS OF OPERATOR

Bank Bldg.

1600 Broadway, Denver, Colo. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

NE 1/4 Sec. 13, T1S, R5W

982' FNL 1564' FEL NW 1/4

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

1/2 mi. south of Mountain Home

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. line, if any)

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TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

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640

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17,000

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TO THIS WELL

640

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

7076' ungraded ground

22. APPROX. DATE WORK WILL START*

Feb. 22, 1973

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SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8	68#	360'	Circl.
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24.

SIGNED

L L Flower Jr

TITLE

Drilling & Prod. Mgr.

DATE

2-21-73

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

139-8

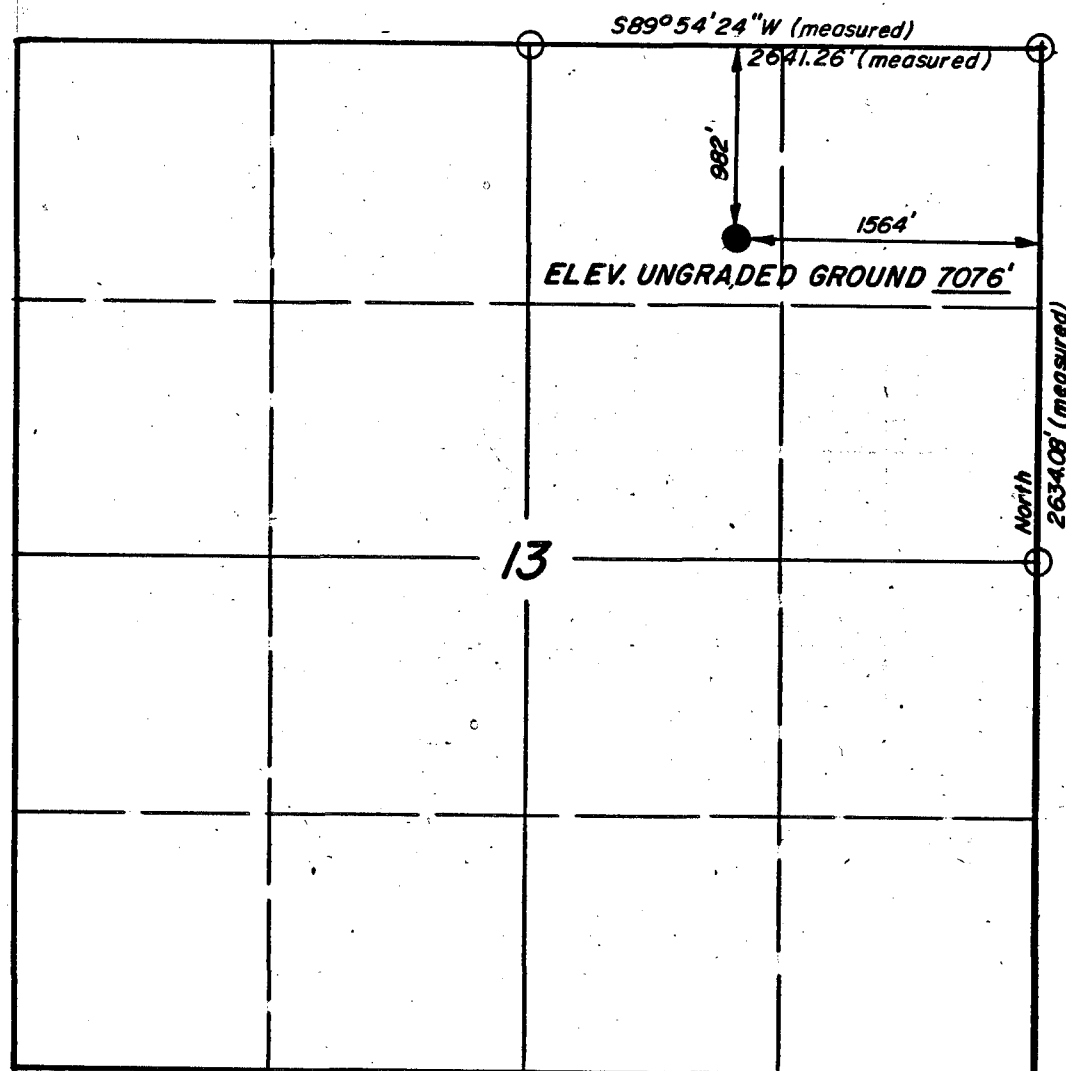
*See Instructions On Reverse Side

PROJECT

TIS, R5W, U.S.M.

FLYING DIAMOND

WELL LOCATION IN THE NW 1/4 NE 1/4
SECTION 13, TIS, R5W, U. S. M., DUCHESNE
COUNTY, UTAH



○ = CORNERS USED

SURVEY PERFORMED 15, 19 FEB. 73



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

John J. Marshall
REGISTERED LAND SURVEYOR
REGISTRATION NO 2454
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE
1" = 1000'

DATE
20 FEB. 73

PARTY
BR BB RR

REFERENCES
G L O PLAT

WEATHER
CLEAR COLD

FILE

February 23, 1973

Flying Diamond Corporation
Suite 2480 - Colorado Bank Building
1600 Broadway
Denver, Colorado 80202

Re: S. Rust No. 1
Sec. 13, T. 1 S., R. 5 W., USM
J. Tidwell No. 1
Sec. 3, T. 1 S., R. 4 W., USM
Duchesne County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to wells is hereby granted in accordance with the Order issued in Cause No. 139-8, dated September 20, 1972.

Should you determine that it will be necessary to plug and abandoned either of these wells, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL - Chief Petroleum Engineer
HOME: 277-2890
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your co-operation with regard to this request will be greatly appreciated.

The following API numbers have been assigned to these wells:

S. Rust #1 - 43-013-30207
J. Tidwell #1 - 43-013-30208

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:jw
Enclosures

cc; U.S. Geological Survey

PT JMS

Form OGCC-1b

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR Flying Diamond Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1600 Broadway, Suite 2480, Denver, Colorado 80202		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE 1/4 982' FNL & 1564' FEL		8. FARM OR LEASE NAME S. Rust
14. PERMIT NO.		9. WELL NO. # 1
15. ELEVATIONS (Show whether DT, RT, OR, etc.) 7076' ungraded ground		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 13-1S-5W, U.S.M.
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

18. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other)	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		
PULL OR ALTER CASING	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
CHANGE PLANS	<input type="checkbox"/>		

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Summary of operations 3-1-73 - 3-31-73:

- 3-9-73 - Spudded 8:00 a.m. 3-8-73 (17-1/2" hole). Ran 8 jts. 13-3/8", 68#, K-55 set at 320' KB. Cemented w/217 sxs. Class "G" plus 217 sxs. 50-50 Pozmix, 3% CaCl.
- 3-11-73 - 905' - Lost circ. at following depths: 783', 833', 850' & 905'.
- 3-12-73 - 954' - Mixing mud & waiting on water.
- 3-13-73 - 1170' - Laying water lines & setting water pump.
- 3-14-73 - 1888' - Washing to bottom.
- 3-15-73 - 2453' - Washing & reaming.
- 3-18-73 - 3684' - Fishing
- 3-19-73 - 3945' - Washing & reaming.
- 3-21-73 - 4512' - Fishing
- 3-22-73 - 4712' - Washing & reaming.
- 3-31-73 - 7287' - Drilling

18. I hereby certify that the foregoing is true and correct

SIGNED AL Flower TITLE Drilling & Production Manager DATE 5-4-73

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR Flying Diamond Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 2480 Colorado State Bank Bldg., Denver, Colo. 80202		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NW NE Section 13, T1S-R5W 982' FNL & 1564' FEL		8. FARM OR LEASE NAME S. Rust
14. PERMIT NO.		9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7076' Ungr. Gr.		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 13, T1S-R5W, USM
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

(Other) PROGRESS REPORT
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Summary of Operations 4-1-73 - 4-30-73:

4-1-73 - 7,500' - Circulating.
4-2-73 - 7,506' - (Strapout depth). Rigging up to run 9-5/8" casing.
4-3-73 - 7,506' - Ran 176 jts. 40# 9-5/8" casing set at 7511'. Cemented top of casing w/300 sxs. 50-50 pozmix, 2% gel, 10% salt, 1/8#/sx. Tuf Fiber, 2% CaCl₂. Did not reach any pressure while pumping. After 12 hrs., cemented outside top of 9-5/8" w/195 sxs. Kalseal & cement consisting of 25% Kal-seal, 75% pozmix. When 185 sxs. pumped in, started reaching pressure. When 195 sxs. in, pressure reached 150 psi. Shut down--pressure held. Attempted to cement w/160 sxs. Halliburton lite, 10% salt, 1/8#/sx. Tuf Fiber, 300 sxs. 50-50 pozmix. After having pumped 155 sxs. cement around shoe, were unable to move cement. Job completed 4-2-73.
4-4-73 - 7,506' - Nippling up; W.O.C.
4-5-73 - 7,506' - Nippling up; testing BOP's & equipment.
4-6-73 - 7,506' - Drilling cement at 5120'. Top of cement at 4429'.
4-7-73 - 7,506' - Drilling cement. Rigging up loggers.
4-8-73 - 7,660' - Running Bond Log.

18. I hereby certify that the foregoing is true and correct

SIGNED H. P. McLish

TITLE Vice President

DATE 6/20/73

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 	
2. NAME OF OPERATOR Flying Diamond Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME 	
3. ADDRESS OF OPERATOR 2480 Colorado State Bank Bldg., Denver, Colo. 80202		7. UNIT AGREEMENT NAME 	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NW NE Section 13, T1S-R5W 982' FNL & 1564' FEL		8. FARM OR LEASE NAME S. Rust	
14. PERMIT NO. 		9. WELL NO. 1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7076' Ungr. Gr.		10. FIELD AND POOL, OR WILDCAT Altamont	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 13, T1S-R5W, USM	
		12. COUNTY OR PARISH Duchesne	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/> <u>PROGRESS REPORT</u>	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Summary of Operations 4-1-73 - 4-30-73. (Cont.):

4-9-73 -- 7,900' - Drilling.
 4-13-73 - 8,933' - Washing & reaming.
 4-18-73 - 10,150' - Washing & reaming (90' to bottom).
 4-20-73 - 10,640' - Washing & reaming (120' to bottom).
 4-23-73 - 11,255' - Tripping out. Left 2 cones in hole.
 4-24-73 - 11,255' - Working thru tight place.
 4-25-73 - 11,257' - Working tapered mill thru bad spot.
 4-26-73 - 11,261' - Worked thru bad spot. Cleaned to bottom.
 4-27-73 - 11,393' - Drilling.
 4-30-73 - 11,753' - Testing BOP's & manifold.

18. I hereby certify that the foregoing is true and correct

SIGNED

H. P. McLish

TITLE Vice President

DATE 6/20/73

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

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2. NAME OF OPERATOR Flying Diamond Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 2480 Colorado State Bank Bldg., Denver, Colo. 80202		7. UNIT AGREEMENT NAME	
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14. PERMIT NO.		9. WELL NO. 1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7076' Ungr. Gr.		10. FIELD AND POOL, OR WILDCAT Altamont	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 13-1S-5W, USM	
		12. COUNTY OR PARISH Duchesne	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

FULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

PROGRESS REPORT

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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Summary of Operations 5-1-73 - 5-31-73:

5-1-73 - 11,808' - Drilling.
5-4-73 - 12,050' - Washing & reaming 30' to bottom.
5-7-73 - 12,324' - Cond. mud.
5-13-73 - 12,805' - Washing & reaming 30'.
5-14-73 - 12,901' - Making pump repairs.
5-15-73 - 12,964' - Washing & reaming (80' fillup).
5-16-73 - 13,012' - Washing & reaming.
5-22-73 - 13,436' - Washing & reaming 40'.
5-26-73 - 13,694' - Hit fill at 10,874'--washing at 11,750'.
5-29-73 - 13,878' - Circ. diesel.
5-30-73 - 13,900' - Prep. to log.
5-31-73 - 13,900' - Logging.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

DATE

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. ☐ OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR
Flying Diamond Corporation

3. ADDRESS OF OPERATOR
2480 Colorado State Bank Building, Denver, Colo 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
NW $\frac{1}{4}$ NE $\frac{1}{4}$ 982' FNL & 1564' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
7076' Ungraded ground

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
S. Rust

9. WELL NO.
#1

10. FIELD AND POOL, OR WILDCAT
Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
13-1S-5W, U.S.M.

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

REQUEST APPROVAL TO DRILL TO 18,250'

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION

DATE 8-23-73

BY CB Feight

18. I hereby certify that the foregoing is true and correct

SIGNED R.L. Flowers, Jr.

DRILLING & PRODUCTION
TITLE MANAGER

DATE 8-14-73

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.	
2. NAME OF OPERATOR Flying Diamond Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR Suite 811--1776 Lincoln Street. Denver, Colorado 80203		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NW NE Sec. 13, T1S, R5W 982' FNL & 1564' FEL		8. FARM OR LEASE NAME S. Rust	
14. PERMIT NO.		9. WELL NO. #1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7076' Ungr. Ground		10. FIELD AND POOL, OR WILDCAT Altamont	
		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA 13-1S-5W	
		12. COUNTY OR PARISH Duchesne	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) Progress Report ☒REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Summary of Operations 6-1-73 - 6-30-73

6-1-73 - 13,900' - Laying down drill pipe; logging. (2800' of 33.7# S-95)
6-2-73 - 13,900' - Rig up & Run Casing, 11,100' of 8RD 7-5/8" S-95 29.75# csg. Landed @ 13,895'. Differential collar @ 13,820'. Shoe @ 13,895'. Cementing.
6-3-73 - 13,900' - Waiting on Cement. 550sxs 50-50 Pozmix, 10% Salt; 2% gel.
6-4-73 - 13,900' - Nippling up, pressure to 3200#.
6-5-73 - 13,905' - Drilling.
6-27-73 - 15,745' - Drilling.
6-28-73 - 15,745' - Fishing; Fish consists of bit, reamer, 10' drill collars, stabilizer, 5 drill collars, top of fish @ 15,581'.
6-29-73 - 15,745' - Ran in with overshot, caught fish, washed to bottom.
6-30-73 - 15,840' - Drilling.

18. I hereby certify that the foregoing is true and correct

SIGNED

R. L. Flowers, Jr.TITLE Drilling & Production Mgr.DATE 9-27-73

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR Flying Diamond Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR Suite 811--1776 Lincoln Street--Denver, Colorado 80203		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NW NE Sec. 13, T1S, R5W 982' FNL & 1564' FEL		8. FARM OR LEASE NAME S. Rust
14. PERMIT NO.		9. WELL NO. #1
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 7076' Ungraded Ground		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 13, 1S, 5W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

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☐

PULL OR ALTER CASING

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☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
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FRACTURE TREATMENT

REPAIRING WELL

☐
☐
☐
☐

SHOOTING OR ACIDIZING

ALTERING CASING

(Other) Progress Report

ABANDONMENT*

XX

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Summary of Operations 7-1-73 - 7-31-73

7-01-73	15,958'	Drlg.
7-17-73	17,102'	Drlg.
7-18-73	17,120'	Wash & Ream @ 17,120'
7-19-73	17,160'	Drlg.
7-28-73	17,604'	Tripping, built mud viscosity and circulate w/full returns. Attempted to drill & lost pressure, pull out of hole & found hole in drill pipe.
7-29-73	17,604'	Checking drill collars & tool jts.
7-30-73	17,613'	Drlg.
7-31-73	17,681'	Drlg.

18. I hereby certify that the foregoing is true and correct

SIGNED

R. L. Flowers, Jr.

TITLE Drlg. & Prod. Mgr.

DATE 11-9-73

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR Flying Diamond Corporation		6. IF INDIAN, ALLOTTED OR TRIBE NAME
3. ADDRESS OF OPERATOR Suite 811--1776 Lincoln Street--Denver, Colorado 80203		7. UNIT AGREEMENT NAME
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14. PERMIT NO.		9. WELL NO. #1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7076' Ungraded Ground		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 13-1S-5W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

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PULL OR ALTER CASING

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FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☐

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

Progress Report

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

☐
☐
☐
☒

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Summary of operations 8-1-73 - 8-31-73

8-01-73	17,767'	Drlg.
8-02-73	17,831'	Drlg. Trip to repair rotary clutch.
8-09-73	18,240'	Drlg.
8-10-73	18,250'	Logging, started logging @ 2:30 P. M. Ran sonic GR, logging to TD. Finished logging at Midnight.
8-11-73	18,250'	Tripping, ran Sonic GR, Dil, FDC, CNL.
8-12-73	18,250'	Rigging up to circ.
8-13-73	18,250'	W.O.C. Ran 120 jts. 5½" 23# P-110 Spiral Atlas Bradford FL4S csg. w/float shoe. Float collar. Bottom liner hanger Packer & Seal receptical. Shoe @ 18,242'. Float collar @ 18,204'. Top of lap 13,334'. Cemented w/30% silica Flour. 1.25% CFR-2 0.5% HR-12 Pumped cement & displaced @ 6:00 P. M. Reverse out 18 BBLs of excess cement. POH. Layed down line running tools & W.O.C.
8-14-73	18,250'	Circulate @ 12,412'.
8-15-73	18,250'	Trip in hole w/packer.

(CON'T ON NEXT PAGE)

18. I hereby certify that the foregoing is true and correct

SIGNED

R. L. Flowers, Jr.

TITLE Drlg. & Prod. Mgr.

DATE 11-9-73

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

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14. PERMIT NO.		9. WELL NO. #1
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 7076' Ungraded Ground		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 13-1S-5W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	FULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)			

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other) Progress Report			XX

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

8-16-73	18,250'	RIH w/retrievable packer to 13,325'. Dispersed drill pipe w/water set packer, tested lap w/6000 psi for 30 min., O.K. Released pressure and checked w/water hydrostatic, left for 1 hr. O.K. Came out of hole. Layed down packer.
8-17-73	18,250'	Displacing mud w/water.
8-18-73	18,250'	Logging @ 18,204' PBTD running bond log.
8-19-73	18,250'	Running dialog, ran GR, Correlation log, cement bond.
8-20-73	18,250'	Picking up 2-3/8" tubing. Cut drill line, lay down Kelly. Ran 443 jts. 2-7/8" EUE 6.4# tubing. String into packer @ 13,659'. Landed tubing w/8000# on packers. Picking up 2-3/8" heat string.
8-21-73	18,250'	Ran 189 jts. 2-3/8" 4.7# N-80 special clearance 8RD set @ 5,935'. Released rig to tear down @ 4:00 P.M. Move tank today.
8-22-73	18,250'	Tearing down; tanks, treater, steam generator on location, pads built, concrete work in progress.
8-23-73	18,250'	Tearing down rig. Hooking up battery. Tanks on location.
8-24-73	18,250'	Rigging down, setting tanks, HT, Steam Generator, today.
8-25-73	18,250'	All equipment in place. Started installing connections.
8-26-73	18,250'	Installing lines.
8-27-73	18,250'	Battery to be completed in 10 days.
8-31-73	18,250'	Building T.B.

18. I hereby certify that the foregoing is true and correct

SIGNED R. L. Flowers, Jr.

TITLE Drlg. & Prod. Mgr.

DATE 11-9-73

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

STATE OF UTAH

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input checked="" type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR Flying Diamond Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
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14. PERMIT NO.		9. WELL NO. #1
15. ELEVATIONS (Show whether DY, RT, OR, etc.) 7076' Ungraded Ground		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 13, T1S, R5W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐

(Other) Progress Report

REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐

XX

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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Summary of Operation 9-01-73 - 9-30-73

<u>9-01-73</u>	18,250'	Building Tank Battery.
<u>9-04-73</u>	18,250'	Complete Tank Battery today.
<u>9-07-73</u>	18,250'	Perf. the following w/2" select fire GO-Winder; 17,365'; 370'; 374'; 383'; 395'; 418'; 424'; 435'; 456'; 534'; 553'; 564½'; 584'; 606'; 612'; 622'; 631'; 641'; 782'; 785½'; 796'; 844'; 852'; 855½'; 866'; 869'; 879'; 952'; 18,130'; 18,131'. Acidized as follows: 18,000 gal., 15% HCL acid w/3 gal. J-22 Non-emulsion agent. 3 gal of C-15 inhibitor; 15 lbs. 2-3 iron Sequestering Agent; 3 ga. G-10 friction reducer. 1# IR, 192 radioactive sand per 100 gal. Opened well to pit on 30/64" choke. Turn to tank battery on 10/64" choke.
<u>9-08-73</u>	18,250'	5 to 10/64" choke; 119 BO; 0 BW; 1.460 MCF Gas.
<u>9-09-73</u>	18,250'	Flowed well on 5/64" choke; 5000 FTP; 9:30 A.M. well developed tubing leak instantaneous. Rigging up work over rig. Rigged up Otis. Ran drift to top profile @ 13,628'.

18. I hereby certify that the foregoing is true and correct

SIGNED

R. L. Flowers, Jr.TITLE Drlg. & Prod. Mgr.DATE 1-10-74

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> 2. NAME OF OPERATOR Flying Diamond Corporation 3. ADDRESS OF OPERATOR Suite 811--1776 Lincoln Street-- Denver, Colorado 80203 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NW NE Sec. 13, T1S, R5W 982' FNL & 1564' FEL 14. PERMIT NO.		5. LEASE DESIGNATION AND SERIAL NO. 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME S. Rust 9. WELL NO. #1 10. FIELD AND POOL, OR WILDCAT Altamont 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 13, T1S, R5W 12. COUNTY OR PARISH Duchesne 13. STATE Utah	
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 7076' Ungraded Ground			

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Progress Report

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Summary of Operations 9-01-73 to 9-30-73 (Continued)

<u>9-10-73</u>	18,250'	Flowed well for 4 hrs. Attempting to warm hole. Displaced annulus & circ. string w/diesel. Made 955 BO; 4 BW in approx. 15 hrs.
<u>9-11-73</u>	18,250'	Comp. displacing heat circulating system w/diesel circ. heat string w/185° diesel. 372 BO; 0 BW; 3100 FTP; 16/64" choke.
<u>9-12-73</u>	18,250'	Repairing well head. The extent of repairs required will involve replaced tubing hanger & possible tubing spool.
<u>9-15-73</u>	18,250	Shut in for BHP build up.
<u>9-16-73</u>	18,250'	Shut in.
<u>9-17-73</u>	18,250'	Prod. 636 BO; 5 BW; 415 MCF Gas. 16 hrs.; varying choke size because of surface storage capacity.
<u>9-30-73</u>	18,250'	24 hrs. test; 10/64" choke; 2100 FTP; 692 BO; 0 BW; 940 MCF Gas.

18. I hereby certify that the foregoing is true and correct

SIGNED

R. L. Flowers, Jr.
R. L. Flowers, Jr.

TITLE Drlg. & Prod. Mgr.

DATE 1-10-74

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____				5. LEASE DESIGNATION AND SERIAL NO.													
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____				6. IF INDIAN, ALLOTTEE OR TRIBE NAME													
2. NAME OF OPERATOR Flying Diamond Corporation				7. UNIT AGREEMENT NAME													
3. ADDRESS OF OPERATOR Suite 811--1776 Lincoln Street--Denver, Colorado 80203				8. FARM OR LEASE NAME S. Rust													
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface NW NE Sec. 13, T1S, R5W 982' FNL & 1564' FEL				9. WELL NO. #1													
At top prod. interval reported below				10. FIELD AND POOL, OR WILDCAT Altamont													
At total depth				11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec.13, T1S, R5W													
14. PERMIT NO. <u>43-013 308071</u> DATE ISSUED _____				12. COUNTY OR PARISH Duchesne													
				13. STATE Utah													
15. DATE SPUDDED 3-8-73	16. DATE T.D. REACHED 8-9-73	17. DATE COMPL. (Ready to prod.) 9-6-73	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 7076 GR	19. ELEV. CASINGHEAD													
20. TOTAL DEPTH, MD & TVD 18,250'	21. PLUG, BACK T.D., MD & TVD 18,204'	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY → All	ROTARY TOOLS CABLE TOOLS													
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Wasatch (17,365 - 18,133')				25. WAS DIRECTIONAL SURVEY MADE No													
26. TYPE ELECTRIC AND OTHER LOGS RUN DIL; FDC-GR; CNL-GR; BHC-SON-GR				27. WAS WELL CORED No													
28. CASING RECORD (Report all strings set in well)																	
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED												
13-3/8"	68#	320' KB	17 1/2"	217 SXS	None												
9-5/8"	40#	7511'	12 1/4"	155 SXS + 195 SXS	None												
7-5/8"	29.7 & 33.7	13,895'	8-3/4"	550 SXS	None												
29. LINER RECORD			30. TUBING RECORD														
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE												
5 1/2	13,334	18,242'	885		2-7/8"												
					3-3/8"												
31. PERFORATION RECORD (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.														
See Attached Sheet			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DEPTH INTERVAL (MD)</th> <th>AMOUNT AND KIND OF MATERIAL USED</th> </tr> <tr> <td>17365'-18133'</td> <td>18000 g 15% HCL</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>			DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	17365'-18133'	18000 g 15% HCL								
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED																
17365'-18133'	18000 g 15% HCL																
33.* PRODUCTION																	
DATE FIRST PRODUCTION 9-6-73		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing			WELL STATUS (Producing or shut-in) Producing												
DATE OF TEST 9-7-73	HOURS TESTED 22 1/2	CHOKE SIZE 10/64"	PROD'N. FOR TEST PERIOD →	OIL—BBL. 1119	GAS—MCF. 1.46 MMCF												
FLOW. TUBING PRESS. 4300	CASING PRESSURE 70	CALCULATED 24-HOUR RATE →	OIL—BBL. 1192	GAS—MCF. 1.56	WATER—BBL. 0												
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Used for fuel & vented			TEST WITNESSED BY Von Edwards														
35. LIST OF ATTACHMENTS # 31 Perforation Record																	
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records																	
SIGNED <u>R. L. Flowers, Jr.</u>		TITLE <u>Drlg. & Production Manager</u>		DATE <u>3-5-74</u>													

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:			38. GEOLOGIC MARKERS		
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORDED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			NAME	TOP	
FORMATION	TOP	BOTTOM		MEAS. DEPTH	TRUE VERT. DEPTH
			Uintah Green River Wasatch	4710 8450 11870	

FLYING DIAMOND CORPORATION S. Rust #1 Sec. 13, T1S, R5W

31 Perforation Record.

1 Shot per Foot at the following intervals, A total of 31 holes.

17,365';	17,370';	17,374';	17,383';	17,395';	17,418';
17,424';	17,435';	17,456';	17,534';	17,542';	17,553';
17,564½';	17,584';	17,606';	17,612';	17,622';	17,631';
17,641';	17,782';	17,785½';	17,796';	17,844';	17,852';
17,855½';	17,866';	17,869';	17,879';	17,952';	18,130';
18,133'.					



NL Industries, Inc.
P.O. Box 1675 Houston, Texas 77001

WATER ANALYSIS REPORT

BAROID TREATING CHEMICALS

						SHEET NUMBER	
COMPANY <u>FLYING DIAMOND</u>						DATE <u>6-25-76</u>	
FIELD <u>Bluebell</u>				COUNTY OR PARISH <u>Duchesne</u>		STATE <u>Utah</u>	
LEASE OR UNIT			WELL(S) NAME OR NO. <u>Rust #1</u>		WATER SOURCE (FORMATION)		
DEPTH, FT.	BHT, F	SAMPLE SOURCE	TEMP, F	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY	
DATE SAMPLED		TYPE OF WATER <input type="checkbox"/> PRODUCED <input type="checkbox"/> SUPPLY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> SALT WATER DISPOSAL					

WATER ANALYSIS PATTERN

(NUMBER BESIDE ION SYMBOL INDICATES me/l* SCALE UNIT)

Na ⁺ 20	15	10	5	0	5	10	15	20 Cl ⁻
Ca ⁺⁺								HCO ₃ ⁻
Mg ⁺⁺								SO ₄ ⁼
Fe ⁺⁺⁺								CO ₃ ⁼

DISSOLVED SOLIDS

CATIONS	me/l*	mg/l*
Total Hardness	<u>24.8</u>	
Calcium, Ca ⁺⁺	<u>14.2</u>	<u>324.0</u>
Magnesium, Mg ⁺⁺		<u>103.0</u>
Iron (Total) Fe ⁺⁺⁺		<u>0.9</u>
Barium, Ba ⁺⁺		<u>15.0</u>
Sodium, Na ⁺ (calc.)		<u>2532.0</u>

ANIONS	me/l*	mg/l*
Chloride, Cl ⁻		<u>4250.0</u>
Sulfate, SO ₄ ⁼		<u>115.0</u>
Carbonate, CO ₃ ⁼		<u>0</u>
Bicarbonate, HCO ₃ ⁻		<u>781</u>
Hydroxyl, OH ⁻		<u>0</u>
Sulfide, S ⁼		<u>0.3</u>
<u>PO₄</u>		<u>1.4</u>

DISSOLVED GASES

Hydrogen Sulfide, H ₂ S	<u>0.3</u> mg/l*
Carbon Dioxide, CO ₂	<u>18.0</u> mg/l*
Oxygen, O ₂	<u>0</u> mg/l*

PHYSICAL PROPERTIES

pH	<u>7.1</u>
Eh (Redox Potential)	<u>ND</u> MV
Specific Gravity	<u>ND</u>
Turbidity, JTU Units	<u>ND</u>
Total Dissolved Solids (calc.)	<u>7922</u> mg/l*
Stability Index @ <u>160</u> F	<u>+0.8</u>
	@ <u> </u> F <u>ND</u>
CaSO ₄ Solubility @ <u> </u> F	<u>ND</u> mg/l*
	@ <u> </u> F <u>ND</u> mg/l*
Max. CaSO ₄ Possible (calc.)	<u>ND</u> mg/l*
Max. BaSO ₄ Possible (calc.)	<u>15.0</u> mg/l*
Residual Hydrocarbons	<u>ND</u> ppm(Vol/Vol)

SUSPENDED SOLIDS (QUALITATIVE)

Iron Sulfide ☐ Iron Oxide ☐ Calcium Carbonate ☐ Acid Insoluble ☐

REMARKS AND RECOMMENDATIONS:

*NOTE: me/l and mg/l are commonly used interchangeably for epm and ppm respectively. Where epm and ppm are used, corrections should be made for specific gravity.

BTC ENGINEER <u>CHUCK MARTIN</u>	DIST. NO. <u>10</u>	ADDRESS <u>VERNAL</u>	OFFICE PHONE <u>789-1668</u>	HOME PHONE <u>789-2828</u>
ANALYZED " "	DATE <u>6-25-76</u>	DISTRIBUTION <input type="checkbox"/> CUSTOMER <input type="checkbox"/> AREA OR <input type="checkbox"/> DISTRICT OFFICE <input type="checkbox"/> BTC ENGINEER OR <input type="checkbox"/> BTC LAB <input type="checkbox"/> BTC SALES SUPERVISOR		

N.L. INDUSTRIES, INC.
P.O. Box 1675 Houston, Texas 77001

WATER ANALYSIS REPORT

BAROID TREATING CHEMICALS

COMPANY FLYING DIAMOND CORP.						SHEET NUMBER	
FIELD BLUEBELL-ALTAMONT						DATE 4-16-76	
LEASE OR UNIT				WELL(S) NAME OR NO. RUST #1		COUNTY OR PARISH DUCHESNE	
				WATER SOURCE (FORMATION) STEAM GENERATOR		STATE UTAH	
DEPTH, FT.	BHT, F	SAMPLE SOURCE	TEMP, F	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY	
DATE SAMPLED 4-14-76		TYPE OF WATER <input type="checkbox"/> PRODUCED <input type="checkbox"/> SUPPLY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> SALT WATER DISPOSAL					

WATER ANALYSIS PATTERN (NUMBER BESIDE ION SYMBOL INDICATES me/l* SCALE UNIT)

Na ⁺ 20	15	10	5	0	5	10	15	20 Cl ⁻
Ca ⁺⁺								HCO ₃ ⁻
Mg ⁺⁺								SO ₄ ⁼
Fe ⁺⁺⁺								CO ₃ ⁼

DISSOLVED SOLIDS

CATIONS	me/l*	mg/l*
Total Hardness	1.6	80.0
Calcium, Ca ⁺⁺	1.2	24.0
Magnesium, Mg ⁺⁺	0.4	4.0
Iron (Total) Fe ⁺⁺⁺		0.1
Barium, Ba ⁺⁺	0.0	0.0
Sodium, Na ⁺ (calc.)		

ANIONS	me/l*	mg/l*
Chloride, Cl ⁻	132.4	4700
Sulfate, SO ₄ ⁼	3.8	180
Carbonate, CO ₃ ⁼	0.8	24.0
Bicarbonate, HCO ₃ ⁻	1.0	61.0
Hydroxyl, OH ⁻	0.0	0.0
Sulfide, S ⁼	0.0	0.0

DISSOLVED GASES

Hydrogen Sulfide, H ₂ S	N.D. mg/l*
Carbon Dioxide, CO ₂	N.D. mg/l*
Oxygen, O ₂	N.D. mg/l*

PHYSICAL PROPERTIES

pH	
Eh (Redox Potential)	N.D. MV
Specific Gravity	N.D.
Turbidity, JTU Units	N.D.
Total Dissolved Solids (calc.)	mg/l*
Stability Index @ F	
CaSO ₄ Solubility @ F	mg/l*
Max. CaSO ₄ Possible (calc.)	mg/l*
Max. BaSO ₄ Possible (calc.)	mg/l*
Residual Hydrocarbons	ppm(Vol/Vol)

SUSPENDED SOLIDS (QUALITATIVE)

Iron Sulfide ☐ Iron Oxide ☐ Calcium Carbonate ☐ Acid Insoluble ☐

REMARKS AND RECOMMENDATIONS:

*NOTE: me/l and mg/l are commonly used interchangeably for epm and ppm respectively. Where epm and ppm are used, corrections should be made for specific gravity.

BTC ENGINEER CHUCK MARTIN	DIST. NO. 10	ADDRESS VERNAL, UTAH	OFFICE PHONE 789-1668	HOME PHONE 789-2828
ANALYZED CHUCK MARTIN	DATE 4-15-76	DISTRIBUTION <input type="checkbox"/> CUSTOMER <input type="checkbox"/> AREA OR <input type="checkbox"/> DISTRICT OFFICE <input type="checkbox"/> BTC ENGINEER OR <input type="checkbox"/> BTC LAB <input type="checkbox"/> BTC SALES SUPERVISOR		

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR Flying Diamond Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR Suite 811--1776 Lincoln Street--Denver, Colorado 80203		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NW NE Sec. 13, T1S, R5W 982' FNL & 1564' FEL		8. FARM OR LEASE NAME S. Rust
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7076' GR	9. WELL NO. #1
		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 13, T1S, R5W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

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PULL OR ALTER CASING

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FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
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REPAIRING WELL

☐
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FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other) Progress Report

XX

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Summary of Operations 9-1-73 to 9-30-73

9-1-73 to 9-6-73 Building Tank Battery.

9-7-73 Perf. the following w/2" Select Fire GO-Winder: 17,365'; 370'; 374'; 383'; 395'; 418'; 424'; 435'; 456'; 534'; 553'; 564½'; 584'; 606'; 612'; 622'; 631'; 641'; 782'; 785½'; 796'; 844'; 852'; 855½'; 866'; 869'; 879'; 952'; 18,130'; 18,131'.
Acidized w/18,000 gal 15% HCL Acid.

9-8-73 Testing.

9-9-73 Testing.

18. I hereby certify that the foregoing is true and correct

SIGNED

R. L. Flowers, Jr.
R. L. Flowers, Jr.

TITLE Drlg. & Prod. Mgr.

DATE 3-7-74

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
 Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.	
2. NAME OF OPERATOR Flying Diamond Oil Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 1700 Broadway Denver CO 80202		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NW $\frac{1}{4}$ NE $\frac{1}{4}$ 982 FNL and 1564' FEL		8. FARM OR LEASE NAME S. Rust	
14. PERMIT NO.		9. WELL NO. #1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7076' Ungraded Ground		10. FIELD AND POOL, OR WILDCAT Altamont	
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 13-1S-5W USM	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*		12. COUNTY OR PARISH Duchesne	
18. STATE Utah			

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input checked="" type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)			

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Stimulate by selectively treating Zone #1 (17,525 - 17618) and Zone #2 (17,350 - 17,495) with 7000 gals. of 7 $\frac{1}{2}$ % HCL.

APPROVED BY THE DIVISION OF
 OIL, GAS, AND MINING

DATE: Dec 27, 1986

BY: Ph. Russell

18. I hereby certify that the foregoing is true and correct

SIGNED

G. K. Bailey

TITLE

Mgr., Drlg. and Prod.

DATE

12-10-76

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.	
2. NAME OF OPERATOR FLYING DIAMOND OIL CORPORATION		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 1700 Broadway, Suite 900, Denver, Colorado 80290		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NW $\frac{1}{4}$, NE $\frac{1}{4}$, 982' FNL & 1,564' FEL SEC 13-T1S-R5W USM		8. FARM OR LEASE NAME S. Rust	
14. PERMIT NO. API 43-013-30207		9. WELL NO. #1	
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 7076 Ungraded Ground		10. FIELD AND POOL, OR WILDCAT Altamont Field	
		11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA SEC 13-T1S-R5W USM	
		12. COUNTY OR PARISH Duchesne	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☒REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1. POOH.

2. Set Model "F" packer at \pm 13,900' with one-way valve (up).3. RIH, set packer at \pm 11,900'.

4. Perforate the following w/2 JSPF:

11,996-98'

12,008-10'

12,023-25'

12,034-36'

12,066-68'

12,086-88'

12,089-91'

12,134-36'

12,215-17'

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: July 18, 1978

BY: J. W. Clark

5. Test.

6. Acidize as required.

7. Put on pumping production commingling Wasatch and Green River production.

18. I hereby certify that the foregoing is true and correct

SIGNED

J. W. Clark

TITLE Division Engineer

DATE 7-12-78

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR Bow Valley Exploration		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1700 Broadway, Suite 900, Denver Colorado, 80290		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NW NE Sec. 13, T1S, R5W 982' Fnl & 1564' FEL		8. FARM OR LEASE NAME S. Rust
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7076' GR	9. WELL NO. #1
		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 13, T1S R5W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐

PULL OR ALTER CASING

☐

FRACTURE TREAT

☐

MULTIPLE COMPLETE

☐

SHOOT OR ACIDIZE

☐

ABANDON*

☐

REPAIR WELL

☐

CHANGE PLANS

☐

(Other)

☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐

REPAIRING WELL

☐

FRACTURE TREATMENT

☐

ALTERING CASING

☐

SHOOTING OR ACIDIZING

☐

ABANDONMENT*

☐

(Other)

Recompletion

☒

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Bow Valley has recompleted the subject well to the Green River Formation as follows;

- Set a permanent pkr. w/ a standing valve between the Green River and Wasatch Formations at 13,334'
- RIH and set retrievable pkr. at 11,855'
- Perforated the following DIL-GR depths w/ 2 JSPF

12,215-17 (2')	12,086-88 (2')	12,023-25 (2')
12,134-36 (2')	12,066-68 (2')	12,008-10 (2')
12,034-36 (2')	11,996-98 (2')	12,089-91 (2')

Total 18', 36 Holes, 9 Intervals in the Green River Formation.

- Pump tested the above Green River Zones w/ no success.
- 12/6/78: acidized well with 5,000 gallons 15% HCL and displaced to perforations w/ 3,000 gallons formation water.
Maximum treating pressure = 5,000 PSI
Average treating pressure = 4,200 PSI @ 4.2 BPM
Used 45 ball sealers for diversion ISIP = 2,100 PSI

Swab and pump tested well w/ no success.

Bow Valley is currently evaluating the well for further work.

18. I hereby certify that the foregoing is true and correct

SIGNED E. B. Wheeler

TITLE Roosevelt Dist. Supt.

DATE March 30, 1979

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

FORM NO. DOGM-UIC-1
(Revised 1982)

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING
ROOM 4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
(801) 533-5771
(RULE I-5 & RULE I-4)

RECEIVED
JUN 25 1983

IN THE MATTER OF THE APPLICATION OF
BOW VALLEY PETROLEUM, INC.

ADDRESS P. O. DRAWER 130
ROOSEVELT, UT ZIP 84066

INDIVIDUAL PARTNERSHIP CORPORATION
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
INJECT FLUID INTO THE S. RUST #1 WELL
SEC. 13 TWP. 1S RANGE 5W
DUCHESNE COUNTY, UTAH

CAUSE NO. DIVISION OF
OIL, GAS & MINING

ENHANCED RECOVERY INJ. WELL ☐
DISPOSAL WELL ☒
LP GAS STORAGE ☐
EXISTING WELL (RULE I-4) ☐

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:

1. That Rule I-5 (g) (iv) authorizes administrative approval of enhanced recovery injections, disposal or LP Gas storage operations.
2. That the applicant submits the following information.

Lease Name S. RUST	Well No. 1-13A5	Field ALTAMONT	County DUCHESNE
Location of Enhanced Recovery Injection or Disposal Well NWNE Sec. 13 Twp. 1S Rge. 5W			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Test Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date Aug. 1973	
Depth-Base Lowest Known Fresh Water Within 1/2 Mile 367Ft.	Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		State What
Location of Injection Source(s) Altamont & Bluebell Fields (See Attachment) Duchesne & Uintah Counties		Geologic Name(s) and Depth of Source(s) Green River Top 8276' Bottom 12,372'	
Geologic Name of Injection Zone GREEN RIVER		Depth of Injection Interval 12,089' to 12,217'	
a. Top of the Perforated Interval: 12,089'	b. Base of Fresh Water: (Attachment B) 367'	c. Intervening Thickness (a minus b) 11,722'	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? YES <input checked="" type="checkbox"/> NO			
Lithology of Intervening Zones Mostly 60% Shale w/sandstone, limestone, dolomite, chert			
Injection Rates and Pressures Maximum 1000 B/D Will have emergency shut-down device 3500 PSI (tattle-tail & pop-off)			
The Names and Addresses of Those to Whom Notice of Application Should be Sent. (See Attachment A) List of landowners to whom notice of the application has been sent.			

State of _____)

Applicant

County of _____)

Before me, the undersigned authority, on this day personally appeared _____
known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on
oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated
therein, and that said report is true and correct.

Suscribed and sworn to before me this _____ day of _____, 19 _____

SEAL

My commission expires _____

Notary Public in and for _____

(OVER)

INSTRUCTIONS

1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitative analysis of the injection formation of water.
2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).
3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)
4. Attach Electric or Radioactivity Log of Subject well (if released).
5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.
7. The Division is required to send notice of application to the surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehold within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.
8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.
9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.
10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.
12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	9 5/8"	7,511'	155 SX + 195 SX		Accoustic Cement Bond Log
Intermediate	7 5/8"	13,895'	550 SX	11,555	Temperature Log
Production	5 1/2"	18,242'	885 SX	13,334	Accoustic Cement Bond Log
Tubing	2 7/8"	11,827'	Name - Type - Depth of Tubing Packer See Below *		
Total Depth 18,250'	Geologic Name - Inj. Zone Green River		Depth - Top of Inj. Interval 12,089'		Depth - Base of Inj. Interval 12,217'

1. 7-5/8" R-3 pkr @ 11,827'
2. Baker #43-30 "F" pkr @ 13,342'

Rust
1-13A5
Mud
Log

WOB 35/40,000
PP 2100
RPM 52
SPM 56

WOB 40,000
PP 2100
RPM 55
SPM 60

INJECTION
INTERVAL

WOB 40
SPM 50
RPM 54
PP 2300

DOWN

12180

12200

40

60

80

20

40

60

80

20

ARG 70%
WH TN GY TR CALC DOL 10%
SS LT-DK GY WH TR GLAUC FG W SORT FIRM G POR SBRD SL CALC 20% BRN O. STN/G FLOR/G C IN 40% OF SD
SH GY GYGRN INCR IN DK BRN-HLK 70%
LS WH TN SM CALC DOL 10%
SS WH LT-DK GY FG W SORT FIRM 20% G FLOR/G C IN 20% OF SD TR CHT TR RD BRN ARG SILST
SH GY GY GRN BRN HLK SL CALC 60%
LS WH TN TR CALC DOL 10%
SS WH LT-DK GY VF-FG SL CALC SBRD W SORT 30% SL TR BRN O. STN PROB FROM CVC SM SILST

SH PRED LT GY SM WCOL SL CALC SIL 60%
LS WH TN CHLKY SM MICRO XLN SM DOL LS 20%
SS WH GY SM S & P F-MG FIRM-TT SL CALC TR BRN O. STN/P FLOR P C SM RD BRN SILST 20% ABN FR QTZ XLN

SH LT-DK GY GYGRN/INTHD PYR SM FIS CALC IN PT 60% TR RD BRN SLT
LS WH TN GY FRI SM MIN FLOR SM DOL LS 10%
SS WH LT-DK GY CALC SM BRN O. STN FR FLOR P C ABN FREE XLN 60%

SH LT-DK GY GYGRN BRN HLK FIRM SL CALC TR RD BRN SILST 40%
LS WH TN SM DOL LS 10%
SS WH LT-DK GY F-MG W SORT G POR SBRD 40% SM BRN O. STN SM DISC QTZ XLN TR PYR
SH LT-DK GY GYGRN BRN-HLK FIRM SL CALC

SH DK GY PRED DK GY - LT GY SM VARI CLR SH LT GYGRN RD BRN DK GRN CALC IN PRT DOLO FRI & SILI
SS WH S&P LT BRN FIRM TT CALC QTZ- SM LT BRN STAIN POOR FLO & CUT F- MED GRN
LS WH CHLKY MUSHY & MICRO-XTLN - LT TAN -

STABILITY INDEX

S.I. = pH - pCa - pAlk - K

Well#

Rust # 1

A. Calculate Sodium Concentration: Sum of Anion equivalents.

ppm Cl	850	35.5 = Epm Cl	30,175.0
ppm CO ₃	0	30.5 = Epm CO ₃	
ppm HCO ₃	1380	61 = Epm HCO ₃	84,180.0
ppm SO ₄	2.9	48 = Epm SO ₄	139.2
TOTAL			114,494.2

B. Sum of Cation equivalents

ppm Ca	89	20 = Epm Ca	1,780.0
ppm Mg	32	12 = Epm Mg	384.0
TOTAL			2,164.0

Epm Anions = Epm Cations X 23 = Epm Sodium (Na).

Epm Na 2,583.594.6

ppm Cl 850 .000014 = .011900

ppm CO₃ X 2 + HCO₃ = Total ppm Alk 1380

ppm HCO₃ 1380 X .000003 = .004140

ppm SO₄ 2.9 X .000021 = .000061

ppm Ca 89 X .000005 = .004450

ppm Mg 32 X .000082 = .002624

ppm Na 909.33 X .000022 = .020005

TOTAL .031280

pH 7 pCa 2.65 pAlk 1.65 K 2.7

68 F 20° K 2.32 SI .38

86 F 40° K 1.96 SI .74 SI = 32°F

104 F 60° K 1.61 SI 1.09

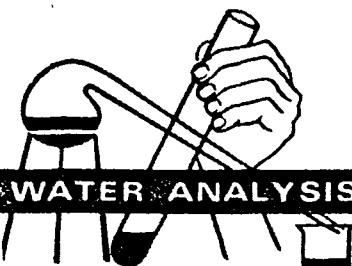
Fe: .5

REPORTED BY

John H. Wall

TITLE

Lab Technician



WATER ANALYSIS REPORT

SERVICE LABORATORY: Vernal, Utah Ph. 789-4327



P.O. Box 752 - Vernal, Utah 84078

CHEMICAL WITH SERVICE

REPORT FOR Chuck Gardner DATE SAMPLED 8/17/82
cc Doug Howard DATE REPORTED 8/18/82
cc _____ FIELD, LEASE, OR WELL Cox
cc _____ COUNTY Duchesne STATE Utah
COMPANY Bow Valley Exploration FORMATION _____
ADDRESS P.O. Box 130, Roosevelt DEPTH _____
SERVICE ENGINEER Glendon Simper SUBMITTED BY _____

CHEMICAL ANALYSIS (AS PARTS PER MILLION)

Field, Lease, or Well

Chemical Component	Cox					
Chloride (Cl)	2010					
Iron (Fe)	1.5					
Total Hardness (Ca CO ₃)	883					
Calcium (Ca)	768					
Magnesium (Mg)	115					
Bicarbonate (HCO ₃)	910					
Carbonate (CO ₃)	90					
Sulfate (SO ₄)	10.5					
Hydrogen Sulfide (H ₂ S)	12					
Barium (BA)	--					
Specific Gravity	1.0039					
Density, lb./gal.						
pH - Beckman [] Strip []	8					
T-67	10					
R-224	49.5					
SI@ 158 F=	3.08					
105 F=	2.49					
68 F=m	2.08					

OTHER DESCRIPTION, REMARKS AND RECOMMENDATIONS

REPORTED BY

Robert L. Wall

TITLE

Lab Technician

WATER ANALYSIS REPORT

SERVICE LABORATORY: Vernal, Utah Ph. 789-4327



P.O. Box 752 - Vernal, Utah 84078

CHEMICAL WITH SERVICE

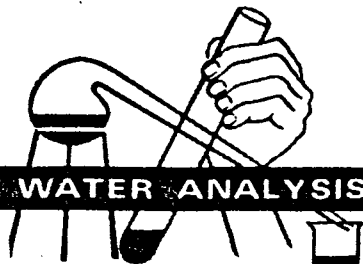
REPORT FOR Chuck Gardner DATE SAMPLED 8/17/82
Doug Howard DATE REPORTED 8/18/82
 CC _____ FIELD, LEASE, OR WELL Fausett
 CC _____ COUNTY Duchesne STATE Utah
 CC _____ FORMATION _____
 COMPANY Bow Valley Exploration DEPTH _____
 ADDRESS P.O. Box 130, Roosevelt Utah SUBMITTED BY _____
 SERVICE ENGINEER Glendon Simper

CHEMICAL ANALYSIS (AS PARTS PER MILLION)

Chemical Component	Field, Lease, or Well					
	Fausett					
Chloride (Cl)	3370					
Iron (Fe)	3					
Total Hardness (Ca CO ₃)	1719					
Calcium (Ca)	1143					
Magnesium (Mg)	576					
Bicarbonate (HCO ₃)	1586					
Carbonate (CO ₃)	135					
Sulfate (SO ₄)	3					
Hydrogen Sulfide (H ₂ S)	40					
Barium (BA)	--					
Specific Gravity	1.0049					
Density, lb./gal.						
pH - Beckman [] Strip []	9					
T-67	136					
R-225	166.5					
SI@ 158 F =	4.40					
105 F =	3.76					
68 F =	3.29					

OTHER DESCRIPTION, REMARKS AND RECOMMENDATIONS

REPORTED BY Robin H. Wall TITLE Lab Technician



WATER ANALYSIS REPORT

SERVICE LABORATORY: Vernal, Utah Ph. 789-4327



P.O. Box 752 - Vernal, Utah 84078

CHEMICAL WITH SERVICE

REPORT FOR Chuck Gardner DATE SAMPLED 8/17/82
cc Doug Howard DATE REPORTED 8/18/82
cc _____ FIELD, LEASE, OR WELL Harrison
cc _____ COUNTY Duchesne STATE Utah
COMPANY Bow Valley Exploration FORMATION _____
ADDRESS P.O. Box 130, Roosevelt, Utah DEPTH _____
SERVICE ENGINEER Glendon Simper SUBMITTED BY _____

CHEMICAL ANALYSIS (AS PARTS PER MILLION)

Field, Lease, or Well

Chemical Component	Harrison					
Chloride (Cl)	4410					
Iron (Fe)	3					
Total Hardness (Ca CO ₃)	1532					
Calcium (Ca)	1250					
Magnesium (Mg)	282					
Bicarbonate (HCO ₃)	1586					
Carbonate (CO ₃)	0					
Sulfate (SO ₄)	5					
Hydrogen Sulfide (H ₂ S)	12					
Barium (BA)	—					
Specific Gravity	1.0118					
Density, lb./gal.						
pH - Beckman [] Strip []	8					
T-67	224					
R-224	100.8					
SI@ 158 F =	4.13					
105 F =	3.46					
68 F =	2.90					

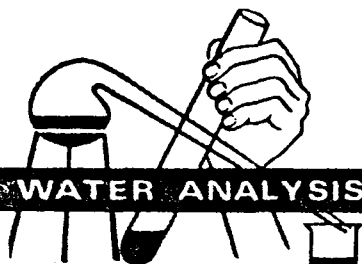
OTHER DESCRIPTION, REMARKS AND RECOMMENDATIONS

REPORTED BY

Robin L. Wall

TITLE

Lab Technician



WATER ANALYSIS REPORT

SERVICE LABORATORY: Vernal, Utah Ph. 789-4327



P.O. Box 752 - Vernal, Utah 84078

CHEMICAL WITH SERVICE

REPORT FOR Chuck Gardner DATE SAMPLED 8/17/82
cc Doug Howard DATE REPORTED 8/18/82
cc _____ FIELD, LEASE, OR WELL 1-25
cc _____ COUNTY Duchesne STATE Utah
COMPANY Bow Valley Exploration FORMATION _____
ADDRESS P.O. Box 130, Roosevelt, Utah DEPTH _____
SERVICE ENGINEER Glendon Simper SUBMITTED BY _____

CHEMICAL ANALYSIS (AS PARTS PER MILLION)

Field, Lease, or Well

Chemical Component	1-25					
Chloride (Cl)	2890					
Iron (Fe)	2					
Total Hardness (Ca CO ₃)	1381					
Calcium (Ca)	1097					
Magnesium (Mg)	302					
Bicarbonate (HCO ₃)	793					
Carbonate (CO ₃)	0					
Sulfate (SO ₄)	5					
Hydrogen Sulfide (H ₂ S)	22					
Barium (BA)	--					
Specific Gravity	1.0059					
Density, lb./gal.						
pH - Beckman [] Strip []	8					
T-67	82					
R-224	121.5					
SI@ 158 F =	3.07					
105 F =	2.39					
68 F =	2.10					

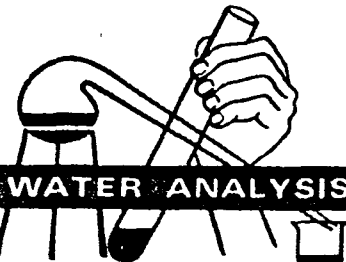
OTHER DESCRIPTION, REMARKS AND RECOMMENDATIONS

REPORTED BY

Dolm J. Wall

TITLE

Lab Technician



WATER ANALYSIS REPORT

SERVICE LABORATORY: Vernal, Utah Ph. 789-4327



P.O. Box 752 - Vernal, Utah 84078

CHEMICAL WITH SERVICE

REPORT FOR Chuck Gardner DATE SAMPLED 8/17/82
CC Doug Howard DATE REPORTED 8/18/82
CC _____ FIELD, LEASE, OR WELL Dry Gulch
CC _____ COUNTY Duchesne STATE Utah
COMPANY Bow Valley Exploration FORMATION _____
ADDRESS P.O. Box 130, Roosevelt Utah DEPTH _____
SERVICE ENGINEER Glendon Simper SUBMITTED BY _____

CHEMICAL ANALYSIS (AS PARTS PER MILLION)

Field, Lease, or Well

Chemical Component	Dry Gulch					
Chloride (Cl)	3010					
Iron (Fe)	5.5					
Total Hardness (Ca CO ₃)	104					
Calcium (Ca)	84					
Magnesium (Mg)	20					
Bicarbonate (HCO ₃)	3782					
Carbonate (CO ₃)	264					
Sulfate (SO ₄)	2					
Hydrogen Sulfide (H ₂ S)	14					
Barium (BA)	--					
Specific Gravity	1.0223					
Density, lb./gal.						
pH - Beckman [] Strip []	9					
T-67	83.2					
R-224	12.6					
SI@ 158 F=	--					
105 F=	--					
68 F=	--					

OTHER DESCRIPTION, REMARKS AND RECOMMENDATIONS

REPORTED BY _____

TITLE _____

BOW VALLEY EXPLORATION & PRODUCTION

STABILITY INDEX

S.I. = pH - pCa - pAlk - K

Well# Rust # 2

A. Calculate Sodium Concentration: Sum of Anion equivalents.

ppm Cl	890	35.5 = Epm Cl	31,595.0
ppm CO ₃	0	30.5 = Epm CO ₃	0.0
ppm HCO ₃	1342	61 = Epm HCO ₃	81,862.0
ppm SO ₄	63.0	48 = Epm SO ₄	3,024.0
TOTAL			116,481.0

B. Sum of Cation equivalents

ppm Ca	159	20 = Epm Ca	3,180.0
ppm Mg	38	12 = Epm Mg	456.0
TOTAL			3,636.0

Epm Anions = Epm Cations X 23 = Epm Sodium (Na).

Epm Na	2,595,435.0		
ppm Cl	890	.000014 =	.012460

ppm CO₃ X 2 + HCO₃ = Total ppm Alk 1342

ppm HCO ₃	1342	X .000003 =	.004026
ppm SO ₄	63.0	X .000021 =	.001323
ppm Ca	159	X .00005 =	.007950
ppm Mg	38	X .000082 =	.003116
ppm Na	857.44	X .000022 =	.018863
TOTAL			.035278

pH	7	pCa	2.36	pAlk	1.59	K	3.05
68 F	20°	K	2.38	SI	.67		
86 F	40°	K	1.98	SI	1.07	SI =	632°F
104 F	60°	K	1.66	SI	1.39		

Fe: 1.05 ppm

REPORTED BY John L. Wall TITLE Lab Technician

W VALLEY EXPLORATION & PRODUCTION

STABILITY INDEX

S.I. = pH - pCa - pAlk - K

Well# Shiner

A. Calculate Sodium Concentration: Sum of Anion equivalents.

ppm Cl	<u>1110</u>	35.5 = Epm Cl	<u>39,405.0</u>
ppm CO ₃	<u>420</u>	30.5 = Epm CO ₃	<u>12,810.0</u>
ppm HCO ₃	<u>1891</u>	61 = Epm HCO ₃	<u>115,351.0</u>
ppm SO ₄	<u>40.8</u>	48 = Epm SO ₄	<u>1,958.4</u>
		TOTAL	<u>169,524.4</u>

B. Sum of Cation equivalents

ppm Ca	<u>20</u>	20 = Epm Ca	<u>400</u>
ppm Mg	<u>14</u>	12 = Epm Mg	<u>168.0</u>
		TOTAL	<u>568.0</u>

Epm Anions = Epm Cations X 23 = Epm Sodium (Na).

Epm Na	<u>3,885,997.2</u>		
ppm Cl	<u>1110</u>	.000014 =	<u>.015540</u>

ppm CO₃ X .2 + HCO₃ = Total ppm Alk .015540

ppm HCO ₃	<u>1891</u>	X .000003 =	<u>.005673</u>
ppm SO ₄	<u>40.8</u>	X .000021 =	<u>.000856</u>
ppm Ca	<u>20</u>	X .000005 =	<u>.001000</u>
ppm Mg	<u>14</u>	X .000082 =	<u>.001148</u>
ppm Na	<u>1399.60</u>	X .000022 =	<u>.030791</u>
		TOTAL	<u>.039468</u>

pH 9 pCa 3.27 pAlk 1.79 K 3.94

68 F K 2.48 SI 1.46

86 F K 2.13 SI 1.81

104 F K 1.64 SI 2.30

SI = 32° F

Fe: 3.3

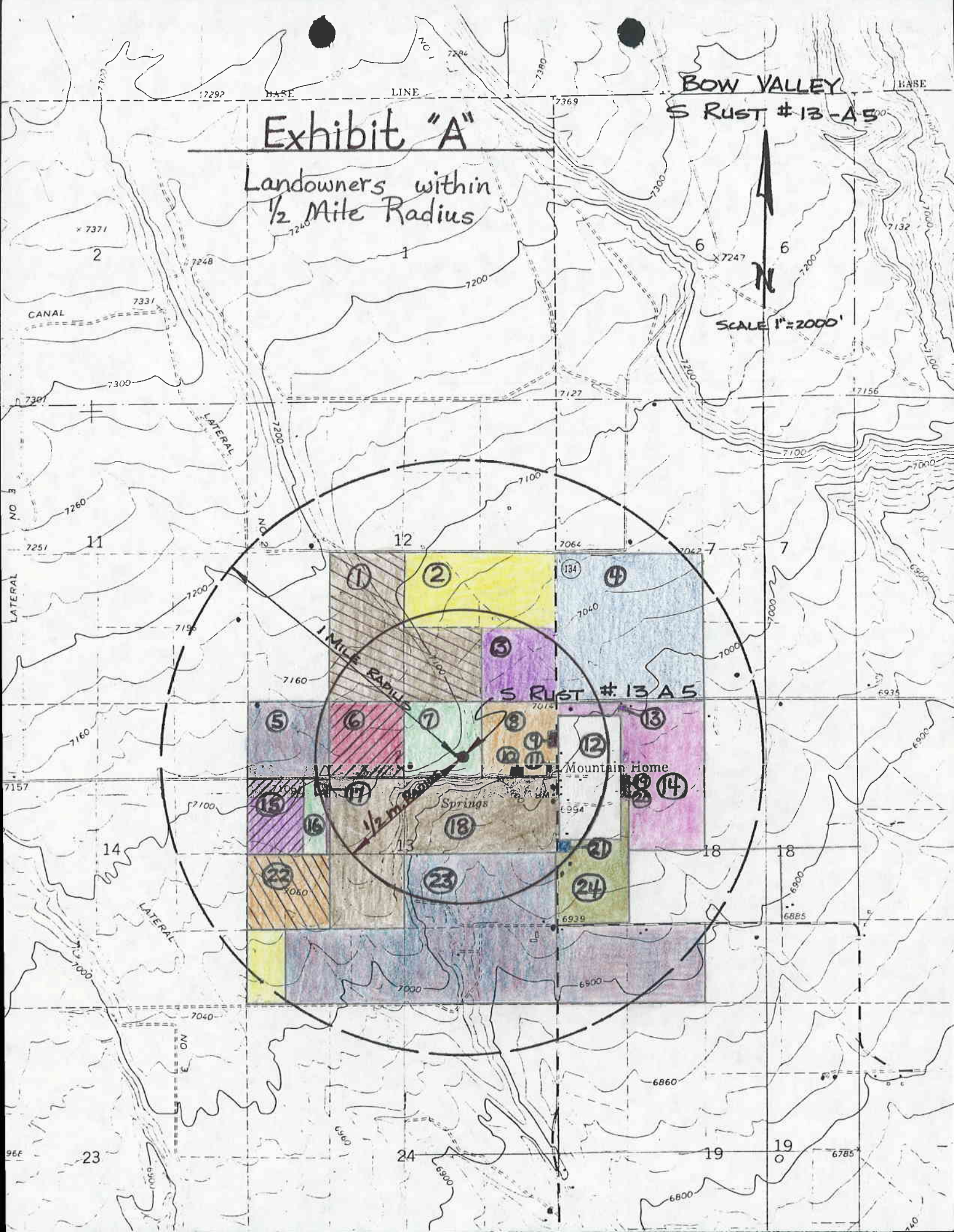
REPORTED BY Rohin Wall TITLE Lab Technician

Exhibit "A"

Landowners within
 $\frac{1}{2}$ Mile Radius

BOW VALLEY
S RUST #13-A5

SCALE 1"=2000'



S. RUST #1-13A5

13 3/8" Casing

Cement from surface to 320' with 217 sxs

9 5/8" Casing

Cement from 3750' to 7511' with 155 + 195 SXS
Casing included 1607' of 40# S-95,
1192' of 40# N-80, 3868' of 40# K-55,
841' of 40# N-80 on bottom

7 5/8" Casing

Cement from 11,555' to 13,895' with 550 sxs. Casing included 3392' of 29.70# S-95, 7715' of EUE 8rnd 29.70# S-95, 2793' of 33.70# S-95. Collar @ 13,820'

Production Tubing

From top down:
386 Joints 2 7/8", 6.50#, P-110, AB Tubing.
National Type "V" Pump cavity.
1 Joint 2 7/8" Tubing as above.
Baker 7 5/8" 33.70# R-3 packer @ 11,827'

Depth of Injection Interval here @ 12,089-12,217

Green River Formation
Lithology is Sandstone & Shale with some limestone, dolomite, and siltstone

* Green River Perforations
12,089'-12,217' 2 JSPF

5 1/2" Liner - Top @ 13,334'

Cement from 13,334' to 18,242' with 885 sxs. Liner is 4908 ft. of 23# P-110 Spiraled Atlas Bradford modified

Baker 43-30" F" Pkr @ 13,342' to isolate the Green River Formation.

6' Millout extension
x-over sub
1 Joint 2 7/8" Tubing

Otis 2.313 x nipple w/standing valve in place (Isolates the Green River from the Wasatch)

* Wasatch Perforations
16,424'-17,955'
17,365'-18,133'

5 1/2" Liner bottom @ 18,242'

Total Depth 18,250'

Rust #1

Cont top? Ok temp log ✓

Green River Fm? ✓

~~How's parts above pte been squeezed~~

How was sample @ Rust 1 taken & @ what depth. ✓

~~Notice of~~
Application sent to surrounding lease holders,
if any? ✓

How was base rock ltr determined? ✓

No Oil or Gas within 1/2 mile in inj. zone?

~~offset leases - notified?~~
A waterflood or sorts!

Geologic structure, if so where on it? ✓
nearby faults, will this H₂O be contained.

Application not notarized!

AKSA Review - Rust #1 SWD

Bowl Valley

Fremworth #1 - Producing Wasatch 17150 - 17782'
18-15-4W

~~40065~~

Water perf. Green River and
abandoned Wasatch

11932-35, 11906-10, 11834-56,
11,838-40, 11808-10, 11,804-06,

AFE Management

Wilkins 1-24AS

24-15-5W

Completed in Wasatch 15712 - 16023'
Plans to Recomplete in Green River Fm.

FD.

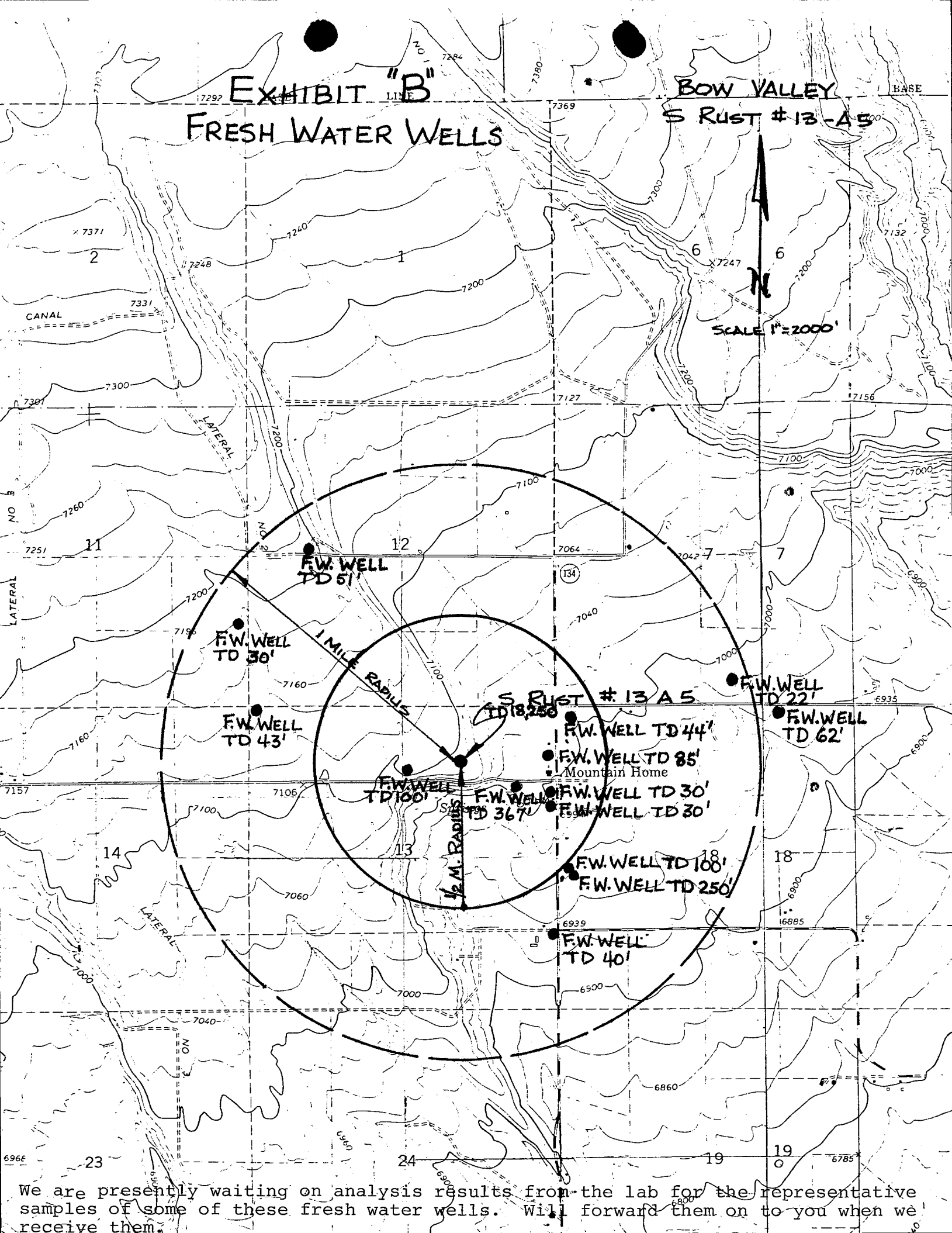
Sheehan 1-7A4

7-15-4W

PTA 10/3/75

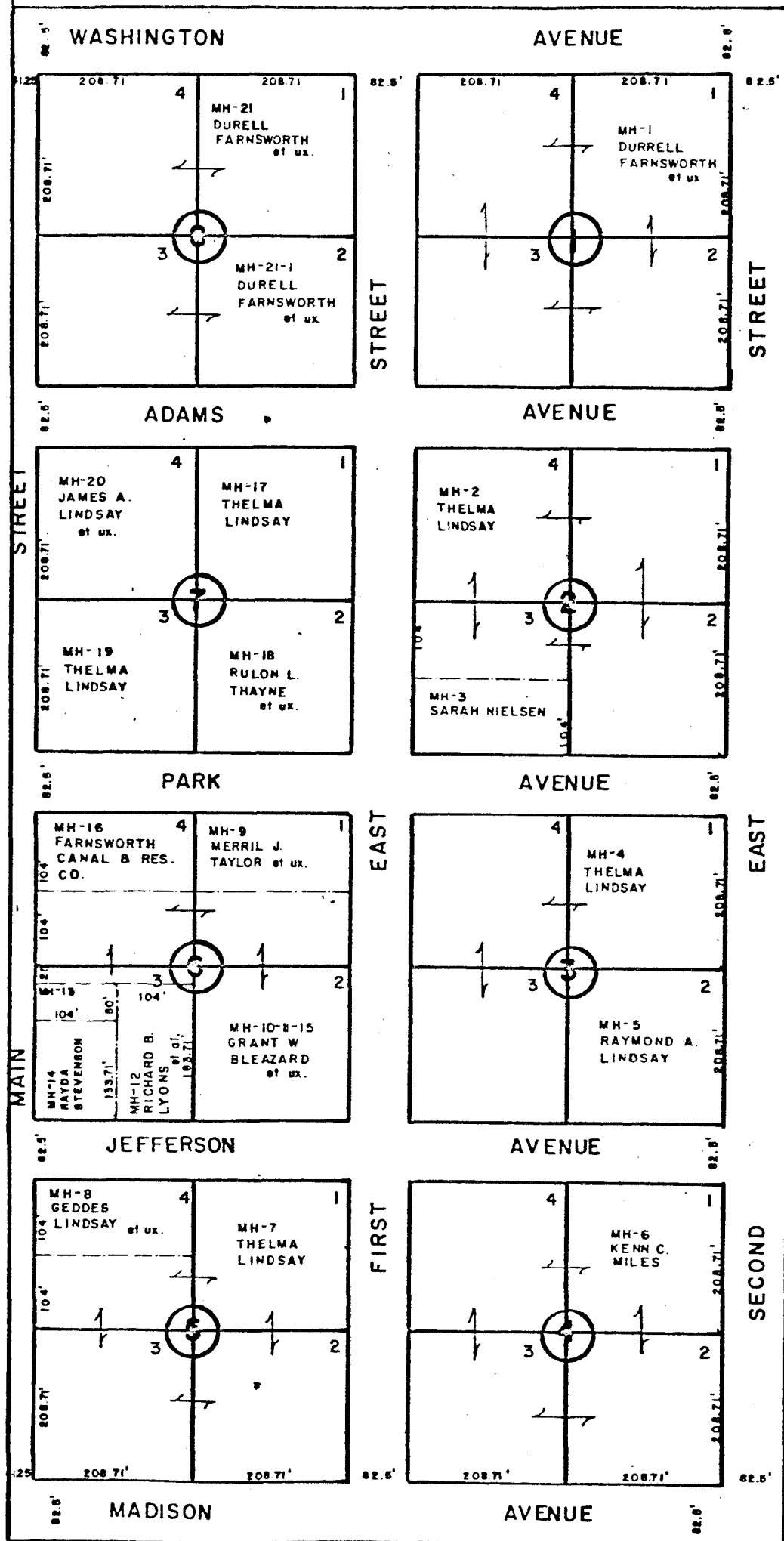
EXHIBIT "B" FRESH WATER WELLS

BOW VALLEY
S RUST #13-A5



We are presently waiting on analysis results from the lab for the representative samples of some of these fresh water wells. Will forward them on to you when we receive them.

1041.09'



MH-13
LYLE FISHER
3/4 LOIS U. POLLARD

MOUNTAIN HOME - TOWNSITE

SEC. 18



ATTACHMENT TO APPLICATION DOGM-UICI
S. RUST #1-13A5

Following is a list of the geologic name, depth, and location of injection fluid sources:

WELL NAME	WELL LOCATION	GEOLOGIC NAME OF PRODUCING INTERVAL	DEPTH OF PRODUCING INTERVAL
COX #1-13A1E	1906 FWL, 1448 FSL NE SW, Sec. 13, T1S R1E Uintah County, Utah	Green River Formation	8,675' - 10,305'
DAVIS #1-33A1E	2356 FWL, 1980 FNL SE NW, Sec. 33, T1S R1E Uintah County, Utah	" "	11,018' - 12,372'
DRY GULCH #1-36A1E	2478 FWL, 1373 FSL NE SW, Sec. 36, T1S R1E Uintah County, Utah	" "	8,780' - 8,910'
FAUSETT #1-26A1E	1574 FWL, 2260 FSL NE SW, Sec. 26, T1S R1E Uintah County, Utah	" "	9,073' - 9,707'
HARRISON #1-18A1E	2381 FWL, 2219 FSL NE SW, Sec. 18, T1S R2E Uintah County, Utah	" "	8,567' - 9,787'
LARSEN #1-25A1E	2125 FSL, 2109 FEL NW SE, Sec. 25, T1S R1W Uintah County, Utah	" "	9,314' - 10,102'
RUST #2-22A4	1113 FNL, 1012 FEL Sec. 22, T1S R4W Duchesne County, Utah	" "	12,092' - 12,448'
SHINER #1-14A4	1081 FEL, 1437 FNL Sec. 14, T1S R4W Duchesne County, Utah	" "	12,200' - 12,308'
K. SHISLER #W-9	1100 FSL, 1129 FWL Sec. 9, T1S R1W Duchesne County, Utah	" "	10,370' - 10,554'
UTE 1-17A1E	833 FEL, 2220 FSL Sec. 17, T1S R1E Uintah County, Utah	" "	8,960' - 10,928'
UTE #1-22A1E	1993 FWL, 2034 FSL Sec. 22, T1S R1E Uintah County, Utah	" "	8,276' - 9,798'
UTE #1-25A1E	1753 FWL, 1857 FSL Sec. 25, T1S R1E Uintah County, Utah	" "	8,981' - 10,140'
UTE #1-35A1E	1704 FNL, 1850 FWL Sec. 35 T1S R1E Uintah County, Utah	" "	8,980' - 12,301'



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

July 6, 1983

Bow Valley Petroleum, Inc.
P.O. Drawer 130
Roosevelt, Utah 84066

Attn: Michelle Einerson

RE: Injection Well Application
S. Rust #1
Sec. 13, T 1 S, R 5 W
Duchesne County, Utah

Dear Ms. Einerson:

The following questions and comments should be addressed before the Division can proceed in approving the conversion of the S. Rust #1 to a disposal well.

1. How was the depth to the base of fresh water determined? Are any logs available (SP, Long Normal, Long Lateral or Deep Induction) which were run shallow enough to estimate the base of treatable water by calculating R_w ? This depth would probably be in the 1500 to 2000' range.
2. What sampling method was used and from what depth was the sample taken in the Rust #1 well?
3. The leaseholders contiguous to the S. Rust lease, other than Bow Valley, will need to be notified of this application. AFE Management has a well in section 24 to the south which they plan to recomplete in approximately the same zone you will be injecting into.
4. Are there any identified faults or other structural features in the vicinity of the Rust #1 well which might affect the confining of the injected fluid?

Ms. Michelle Einerson
July 6, 1983
Page Two

After the Division finishes its review of this application there will be a 15 day publication period, after which if no objections are received it can be administratively approved.

If you have any questions, please call.

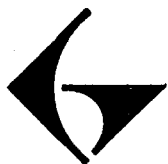
Sincerely,

DIVISION OF OIL, GAS AND MINING



GILBERT L. HUNT
UIC GEOLOGIST

GLH/mn



Bow Valley Petroleum Inc.

P.O. Drawer 130, Roosevelt, Utah 84066

Telephone: (801) 722-5166

July 12, 1983

State of Utah
Natural Resources
Oil, Gas, & Mining
4241 State Office Building
Salt Lake City, Utah 84114

ATTENTION: Mr. Gilbert Hunt

RE: Injection Well Application
S. Rust #1
Section 13, T1S, R5W,
Duchesne County, Utah

Dear Mr. Hunt,

The following comments are in reply to your letter of July 6, 1983.

1. In the initial application we reported the depth to the base of fresh water as 367 feet. This was the lowest known depth to fresh water as determined from a request we made to the State Engineer for a list of fresh water wells within a 1/2 mile radius of the Rust #1 well.

The top logged interval of the SP and Induction logs which are available is at 10,960'. Apparently there were no shallow logs run for that series.

2. The sampling method used for the analysis of the Rust #1 water consisted of drawing a container full of production water from the suction of the triplex pump on location. The water originates from the perfs at 12,090' to 12,200'.
3. In a telephone conversation with Gilbert Hunt on July 5, 1983, he stated that AFE Management would be notified of our intentions by your office.

RECEIVED
JUL 14 1983

**DIVISION OF
OIL, GAS & MINING**

Sincerely,

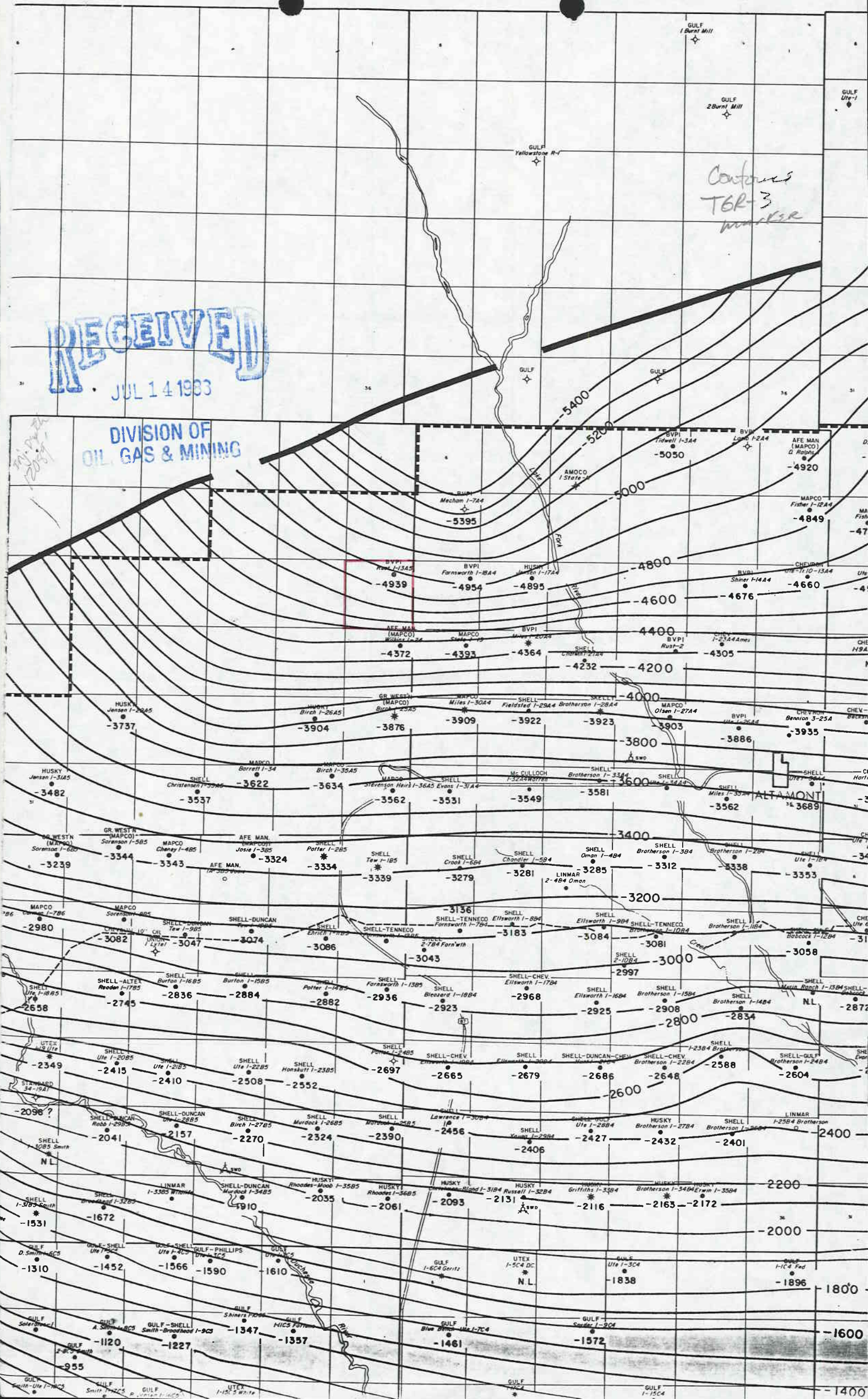
Michelle Einerson
Michelle Einerson
Engineering Technician

Enclosed please find a photocopy of a structure map showing the area surrounding the Rust #1 well.

4 W

JUL 14 1983

DIVISION OF
OIL, GAS & MINING





S. RUST #1-13A5

LANDOWNERS WITHIN 1/2 MILE RADIUS - EXHIBIT A

- | | |
|---|--|
| (1) Veloy Farnsworth
Mountain Home, UT 84051 | (14) Durell Farnsworth
Box 59
Mountain Home, UT 84051 |
| (2) Robert C. Alexander
Altamont, UT 84001 | (15) Veloy Farnsworth
(as above) |
| (3) Jairus Lamb
Mountain Home, UT 84051 | (16) Ronnie E. Farnsworth
Box 42
Mountain Home, UT 84051 |
| (4) Floyd Lyons
Mountain Home, UT 84051 | (17) Elmer R. Moon
Box 173
Neola, UT 84053 |
| (5) Zane & Flora Christensen
Box 16
Talmage, UT 84073 | (18) Rayda Stevenson
Mountain Home, UT 84051 |
| (6) Virgil C. Stevenson
Mountain Home, UT 84051 | (19) Thelma Lindsay
Mountain Home, UT 84051 |
| (7) Sidney D. Rust
Mountain Home, UT 84051 | (20) Edwin Rowley
Mountain Home, UT 84051 |
| (8) Jairus Lamb
(as above) | (21) J. Lorin Stevenson
2653 Beverly Street
Salt Lake City, UT 84106 |
| (9) Robert C. Alexander
(as above) | (22) Elmer R. Moon
(as above) |
| (10) Jewell and Alonzo Lamb
Mountain Home, UT 84051 | (23) Zane & Flora Christensen
(as above) |
| (11) Toini Halonen
Box 5
Mountain Home, UT 84051 | (24) Ivan Street
Mountain Home, UT 84051 |
| (12) Mountain Home Townsite
(see attached list) | |
| (13) Adele F. Farnsworth
Mountain Home, UT 84051 | |



S. RUST #1-13A5

LANDOWNERS WITHIN 1/2 MILE RADIUS - EXHIBIT A (cont.)

MOUNTAIN HOME TOWNSITE

- (1) Grant Bleazard
Mountain Home, UT 84051
- (2) Durell Farnsworth
Box 59
Mountain Home, UT 84051
- (3) Geddes Lindsay
Mountain Home, UT 84051
- (4) Thelma Lindsay
Mountain Home, UT 84051
- (5) Raymond Lindsay
Mountain Home, UT 84051
- (6) James Lindsay
Mountain Home, UT 84051
- (7) Kenn C. Miles
Mountain Home, UT 84051
- (8) Richard Lyons
Box 1089
Roosevelt, UT 84066
- (9) Sarah Nielsen
Mountain Home, UT 84051
- (10) Merrill Taylor
Talmage, UT 84073
- (11) Rulon L. Thayne
Mountain Home, UT 84051
- (12) Lyle Fisher
1866 Monterey Drive
Holladay, UT 84121



S. RUST #1-13A5

EXHIBIT C

ASSESSMENT OF EXISTING CEMENT BOND
BETWEEN THE CASING & THE FORMATION

13 3/8" Casing

Cemented from surface to 320'

9 5/8" Casing

Cement top @ 3750'
From 3750' - 3836' - Poor Bond
3836' - 4045' - Fair Bond
4045' - 6270' - Very Good
6270' - 7508' - Good Bond

7 5/8" Casing

Cement top @ 11,555'
(Temperature log is insufficient to evaluate bond)

5 1/2" Liner

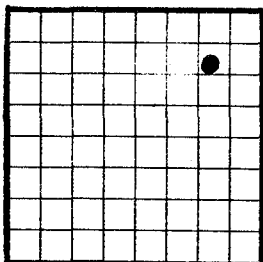
Cement top @ 13,304'
From 13,304' - 16,285' - Poor
16,285' - 18,080' - Good

PLEASE TYPE OR USE BLACK INK ONLY

(To be filed within 30 days after drilling is completed)

API NO. 43-013-30207

640 Acres
N



Locate Well Correctly
and Outline Lease

(640
Acres)

DEPARTMENT OF NATURAL RESOURCES AND ENERGY

DIVISION OF OIL, GAS, AND MINING
Room 4241 State Office Building
Salt Lake City, Utah 84114

COUNTY
LEASE NO.

COUNTY Duchesne SEC. 13 TWP. 1S RGE. 5W
COMPANY OPERATING BOW VALLEY PETROLEUM, INC.
OFFICE ADDRESS P. O. DRAWER 130
TOWN ROOSEVELT, UT STATE UT ZIP 84066
FARM NAME S. RUST WELL NO. 1-13A5
DRILLING STARTED 3-1 1973 DRILLING FINISHED 8-5 1973
DATE OF FIRST PRODUCTION 9-6-73 COMPLETED 9-6-73
WELL LOCATED SE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$
1652 FT. FROM SL OF $\frac{1}{4}$ SEC. & 1077 FT. FROM WL OF $\frac{1}{4}$ SEC.
ELEVATION DERRICK FLOOR 17' GROUND 7076'

TYPE COMPLETION

Single Zone XX

Multiple Zone _____

Comingled _____

LOCATION EXCEPTION

OIL OR GAS ZONES

Name	From	To	Name	From	To
Green River	8,450	11,870	(Presently producing G R Zone only)		
Wasatch	11,870	18,242			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Top
13 3/8"	68#		320'		217 sx		Surface
9 5/8"	40#	S-95 N-80, K-55	7511'		155 sx+ 195 sx		Surface
7 5/8"	29.7# 33.7#	S-95	13,895'	3500	550 sx		11,550'
5 1/2"	23#	P-110	4,908'		885 sx		13,270'

TOTAL DEPTH 18,250'

PACKERS SET
DEPTH

1. Baker 7 5/8" R-3 pkr @ 11,858'

NOTE: THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUGGING FORM DOGM-UIC-6

2. Baker #43-30 "F" pkr @ 13,342 w/ stdg valve
to isolate the Green River from the Wasatch

COMPLETION & TEST DATA BY PRODUCING FORMATION

1

2

3

FORMATION	WASATCH	GREEN RIVER
SPACING & SPACING ORDER NO.		
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	OIL WELL	OIL WELL
PERFORATED	17,365-18,133	12,089-12,217
INTERVALS	16,424-17,955	2JSPF
ACIDIZED?	* See Attachment Reverse Side	5,000 gal. 15% HCl acid
FRACTURE TREATED?		

INITIAL TEST DATA

Date	9-7-73		
Oil, bbl./day	1119		
Oil Gravity	42		
Gas, Cu. Ft./day	1.46 MM	CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.	1304/1		
Water-Bbl./day	0		
Pumping or Flowing	Flowing		
CHOKE SIZE	10/64"		
FLOW TUBING PRESSURE	4300		

A record of the formations drilled through, and pertinent remarks are presented on the reverse.
(use reverse side)

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and complete
according to the records of this office and to the best of my knowledge and belief.

Telephone _____ Name and title of representative of company _____

Subscribed and sworn before me this _____ day of _____, 19 _____

ATTACHMENT TO FORM DOGM-UIC-2

WELL: S. RUST #1-13A5

ACID TREATMENT TO WASATCH FORMATION

1.	9-07-73	18,000 Gal. 15% HCl Acid
2.	3-03-74	5,000 Gal. 15% HCl Acid
3.	7-24-74	21,000 Gal. Gyp-sol II
4.	8-08-74	30,000 Gal. 15% HCl Acid
5.	7-16-76	5,000 Gal. 7 ½% HCl
6.	1-17-77	3,000 Gal. 7½% HCl

GEORGE E. MANGAN

Attorney and Counselor at Law

P.O. Box 219
47 North Main
Roosevelt, Utah 84066

(801) 722-2428

July 19, 1983

State of Utah
Natural Resources and Energy
Oil, Gas and Mining Commission
4241 State Office Building
Salt Lake City, Utah 84114

Re: Conversion of Sidney D. Rust
#1-BA5 Well

To Whom It May Concern:

This office represents Mr. Sidney D. Rust of Mountain Home, Utah. Mr. Rust is the owner of both surface and mineral rights in Section 13, Township 1 South, Range 5 West, U.S.B. & M. He is quite concerned by the proposal of Bow Valley Petroleum, Inc., to convert the above referenced well into a disposal injection well, and has asked that we register his firm disapproval of the same.

First, Mr. Rust leased his surface rights on February 19, 1973, to Flying Diamond, for a well site for the "production of oil, gas and associated hydrocarbons." He does not feel that it was the intent of either party that this site could or would later be turned into a waste water disposal site.

Second, is only water, as found in its natural state, going to be pumped into this well, or will the water also contain the chemicals and other substances associated with drilling and/or production operations? Surely no one should be forced to have their ground, at any level or depth, become the repository of waste water no one else wants. Brackish or salt water is one thing, but water with all kinds of chemicals added is quite another.

Mr. Rust is emphatic in his position that Bow Valley should not use this well as a disposal injection well, and that Bow Valley has no legal basis to even pursue the same. The commission is respectively urged to deny Bow Valley's request.

Sincerely yours,

George E. Mangan
George E. Mangan
Attorney at Law

GEM/gg

cc: Mr. Sidney D. Rust
Bow Valley Petroleum, Inc.

RECEIVED
JUL 20 1983

DIVISION OF
OIL, GAS & MINING

W1
GEORGE E. MANGAN

Attorney and Counselor at Law

P.O. Box 219
47 North Main
Roosevelt, Utah 84066

(801) 722-2428

43-013-30207

July 19, 1983

State of Utah
Natural Resources and Energy
Oil, Gas and Mining Commission
4241 State Office Building
Salt Lake City, Utah 84114

Re: ✓ Conversion of Sidney D. Rust
✓ ~~43-013-30207~~

To Whom It May Concern:

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Sincerely yours,

George E. Mangan
George E. Mangan
Attorney at Law

GEM/gg

cc: Mr. Sidney D. Rust
Bow Valley Petroleum, Inc.

RECEIVED
JUL 20 1983

DIVISION OF

OIL, GAS & MINING



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

July 28, 1983

Mr. Doug Howard
Bow Valley Petroleum Inc.
P.O. Drawer 130
Roosevelt, Utah 84066

RE: Rust 1-BA5 Well
Sec. 13, T1S, R5W
Duchesne County, Utah

Dear Mr. Howard:

Your attention is directed to the attached copy of a letter dated July 14, 1983, from George E. Morgan Esq. Because of the legal issues raised by Mr. Morgan, this Division cannot, at this time, approve the conversion of the above mentioned disposal well.

Since the Board of Oil, Gas and Mining does not have jurisdiction to make a legally binding interpretation of the covenants of the lease involved, it would appear that this matter must be handled by a court of law.

Sincerely,

A handwritten signature in cursive script, reading "Cleon B. Feight", is written over the typed name.

CLEON B. FEIGHT
UIC MANAGER

Enclosure

CBF/mm

cc: Mr. Morgan



UTAH
NATURAL RESOURCES

To: *John*

From: *Claudia*

Date: *10/11/85*

- ☐ For your information and file.
- ☐ For necessary action.
- ☐ Reply directly to origin with a copy to this office.
- ☐ Please draft a reply for signature of _____

and

return by the following date _____

- ☐ Other *shd this well be*

GR-WS or GRRV at this time?

*Orig comp in WSTC. That
is the only zone in system.*

Wasatch

9/73

~~*Gr. River*~~

Gr. River

12/78

*Currently open in
Gr. River only.*

S Rust #1

021708

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. N/A	
2. NAME OF OPERATOR BOW VALLEY PETROLEUM, INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
3. ADDRESS OF OPERATOR P.O. DRAWER 130, ROOSEVELT. UTAH 84066		7. UNIT AGREEMENT NAME N/A	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 982' FNL 1564' FEL, NW NE		8. FARM OR LEASE NAME RUST #1	
14. PERMIT NO. 43-013-30007		9. WELL NO. 1-13A5	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7076' GR		10. FIELD AND POOL, OR WILDCAT Altamont	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 13, T1S, R5W	
		12. COUNTY OR PARISH Duchesne	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐
☐
☐
☐

PULL OR ALTER CASING

☐
☐
☒
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☐

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Bow Valley requests approval to P & A well as follows:

Proposed Plug & Abandon Procedure

- MIRUSU. ND wellhead. NU BOP.
- Check, record, & bleed off 9-5/8" csg pressure. Load 9-5/8" csg w/ fresh wtr. Establish injection rate. Do not exceed 2000#. Leave 9-5/8" csg open. Check pressure & injection rate on 13-3/8" csqs.
- Circulate well as necessary w/ diesel & formation wtr to c/o paraffin.
- Test 7-5/8" csqs to 2000# above pkr @ 11858'.
- Release Baker 7-5/8" 33.70# Model R-3 dbl-grip ret csg pkr @ 11858' in 11,000# compression. Meas out of hole. LD National "V" pump cavity & pkr. 13342
- TIH w/open end tbq to top of Baker 43FAB30 pkr w/ std valve @ 13142'.
- Spot 150' cmt plug f/13192' to 13342'. (Liner top @ 13334'.)
- POOH. LD tbq above cmt top. Spot 9# plus or minus mud up to 11950'.
- POOH. LD tbq to 11950'. Continue out of hole, std pipe in derrick.
- Set on tbq Halliburton 7-5/8" 33.70# mechanical set ret @ 11950'. (Perfs @ 11996'-12217'). Test tbq to 3000#. Test 7-5/8" csqs to 2000#.
- Spot 50' cmt plug below ret & 50' above ret. (Plug f/ 11900'-12000').
- POOH. LD tbq to above cmt top. Turn hole over w/ 9# plus or minus mud. Test 7-5/8" csqs to 2000#.
- POOH. LD tbq to 8400'.
- Spot 100' cmt plug f/ 8300' to 8400'.
- POOH. LD tbq to 4800'.
- Spot 100' cmt plug f/ 4700' to 4800'.
- POOH. LD tbq to 1200'.
- Spot 100' cmt plug f/ 1100' to 1200'.
- POOH. LD tbq to 45'.
- Spot 10 sacks cmt plug f/ 10' to 60'.
- Cmt down 9-5/8" csg w/ 100' cmt plug.
- Cmt down 13-3/8" csg w/ 100' cmt plug.
- ND BOP. RDSU move to yard.
- Cut all csqs off 4' below ground level. Install dry hole marker.
- Reclaim location as per land owner agreement.

18. I hereby certify that the foregoing is true and correct

SIGNED Michelle M. Meckham

TITLE Eng. Technician

DATE 2-4-87

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

1. Operator shall notify DOGM 24 hrs. prior to beginning work.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 2-4-87

BY: John R. Buge

*See Instructions on Reverse Side

1-18-87

S. RUST #1-13A5
N.W. - N.E. SEC. 13, T15, R5W
982' FNL + 1564' FEL
DUCESNE COUNTY, UTAH
RND - 3-8-73

320' 13 $\frac{3}{8}$ " 68#

CMT. w/ 217 SKS.
9 $\frac{5}{8}$ " csg.

3800' CMT. TOP. CBL-RAM 4-7-73

4-3-73

9 $\frac{5}{8}$ " 40# N-80 LTR 8RD. SURF TO 833'

" " K-55 STR 833' TO 4701'

" " N-80 LTR 8RD. 4701' TO 5893'

7500' 9 $\frac{5}{8}$ " " S-95 " " 5893' TO 7511'

CMT. w/ 560 SKS. 12000 LITE +

300 SKS. 50-50 POZ. PLUGGED OFF

w/ 155 SKS. LITE AROUND SLCE.

LEAVING 705 SKS. INSIDE PIPES.

CMT. DOWN BACKSIDE w/ 300 SKS.

50-50 POZ + 200 SKS. "B" BETWEEN

13 $\frac{3}{8}$ " + 9 $\frac{5}{8}$ " csgs.

7 $\frac{5}{8}$ " csg.

11,560' CMT. TOP. TEMP LOG RAM 6-2-73

11-26-78 PERM. F/ 11,986' TO 12,217' 36-HOLE

8-11-73 (CNC RAM. - CRL-3 PION.)

BROWN OIL TOOL HANGER

13,334' 7 $\frac{5}{8}$ " x 5 $\frac{1}{2}$ " 23# ABFL45 LINER

CMT. w/ 885 SKS. "B"

8-2-73

13,895' 7 $\frac{5}{8}$ " 29.70 + 33.70# S-95 LTR 8RD.

7 $\frac{5}{8}$ " 29.70# S-95 LTR 8RD. SURF TO 11100'

" 33.70# " " " 11100' TO 13,895'

CMT. w/ 550 SKS. 50-50 POZ

8-7-73 PERM. F/ 17,365' TO 18,133' 31-HOLE

7-18-74 PERM. F/ 16,424' TO 17,953' 154-HOLE

8-11-73

CMT. w/ 885 SKS. "B"

18,204' 5 $\frac{1}{2}$ " 23# P-110 ABFL45 LIC

18,242' 5 $\frac{1}{2}$ " 23# P-110 ABFL45 SLCE

18,250' T.D.

11-10-78

BAKER #43 EAB 30
PKR. 2.80' LG.
N/O EXT. 6.80' LG.
1-UT 2 $\frac{3}{8}$ " TDS. "
31.53' LG. 2.313
I.D. OTIS NIPPLE
1105' LG. 2 $\frac{3}{8}$ "
R/P UT. 4.03'
LG. TOP OF PKR
@ 13,342'
BOTTOM @ 13,388.21
S/V IN NIPPLE



042900

AMENDED
CERTIFICATE OF AUTHORITY
OF

GW PETROLEUM INC.

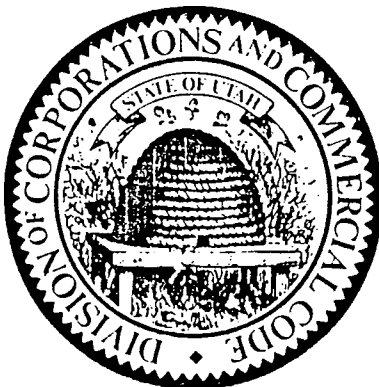
The Department of Business Regulation, Division of Corporations and Commercial Code, pursuant to the Utah Business Corporation Act, hereby issues an Amended Certificate of Authority to GW PETROLEUM INC., formerly BOW VALLEY PETROLEUM INC.

to transact business in the State of Utah.

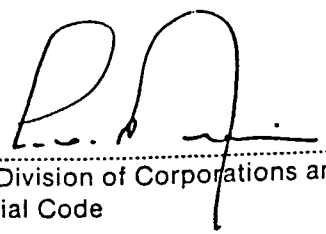
File No. #79959

RECEIVED
APR 27 1987

DIVISION OF
OIL, GAS & MINING



Dated this 23rd day of
February A.D. 19 87


Director, Division of Corporations and
Commercial Code

Filing Fee: \$25.00

File Duplicate Originals

1987 FEB 23 PM 2:28

APPLICATION FOR
AMENDED CERTIFICATE OF AUTHORITY
OF

23rd Feb

35.00

M.C. BOW VALLEY PETROLEUM INC.
(corporate name)

To the Division of Corporations and Commercial Code
State of Utah

Pursuant to the provisions of Section 16-10-14 of the Utah Business Corporation Act, the undersigned corporation hereby applies for an Amended Certificate of Authority to transact business Utah, and for that purpose submits the following statement:

FIRST: A Certificate of Authority was issued to the corporation by your office on December 19, _____, 19 78, authorizing it to transact business in your State.

SECOND: The corporate name of the corporation has been changed to _____
GW PETROLEUM INC.

THIRD: The corporation will use the changed name hereafter in Utah.

FOURTH: It desires to pursue in the transaction of business in Utah other or additional purposes than those set forth in its prior Application for a Certificate of Authority, as follows:

No change

Dated February 3, 19 87.

- Notes: 1. If the corporate name has not been changed, insert "No Change".
2. If no other or additional purposes are proposed, insert "NO Change".

Under penalties of perjury, we declare that this application for Amended Certificate of Authority has been examined by us and is, to the best of our knowledge and belief, true, correct and complete.

Send completed forms to:
STATE OF UTAH
Department of Business Regulation
Div. of Corporations & Commercial Code
160 E. 300 South / P.O. Box 5801
Salt Lake City, Utah 84110 - 5801

RECEIVED
APR 27 1987

DIVISION OF
OIL, GAS & MINING

G W PETROLEUM INC.

(exact corporate name)

By

President or Vice President

By

Secretary or Assistant Secretary

STATE OF UTAH

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR GW Petroleum, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A 090902
3. ADDRESS OF OPERATOR P.O. Drawer 130, Roosevelt, Utah 84066		7. UNIT AGREEMENT NAME N/A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 982' FNL, 1564' FEL, NW NE		8. FARM OR LEASE NAME RUST #1-
14. PERMIT NO. 43-013-30207		9. WELL NO. 1-13A5
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7076' Ung GL		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Sec.13, T1S, R5W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐
☐
☐
☐
☐

PULL OR ALTER CASING

☐
☐
☐
☐
☐

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

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☐

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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☐
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☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

May 6, 1987 through May 15, 1987 plugged and abandoned well as proposed in Sundry Notice dated Feb. 4, 1987 with the exception of line #22; it was not necessary to cement down 13-3/8" casing as it had previously been cemented during drilling operations.

A wellbore diagram is attached showing depth and amount of plugs actually set.

Surface reclamation operations have begun following negotiations with landowner. Upon completion of reclamation, notice will be sent to your office.

18. I hereby certify that the foregoing is true and correct

SIGNED

Michelle Meckam

TITLE Eng. Technician

DATE Aug. 31, 1987

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 9-9-87

BY: [Signature]

*See Instructions on Reverse Side

GEORGE WESTERN PRODUCTION
BASS VALLEY PETROLEUM INC.

Well # 1-13 AS

Duchesne County, Utah

(May 14, 1987)

